SONY

CAMERA COMMAND NETWORK UNIT

CNU-700

CNU IF BOARD
BKP-7930

MAINTENANCE MANUAL
3rd Edition
Serial No. 18001 and Higher: CNU-700 (UC)
Serial No. 38001 and Higher: CNU-700 (J)
Serial No. 48001 and Higher: CNU-700 (CE)

⚠警告

このマニュアルは，サービス専用です。
お客様が，このマニュアルに記載された設置や保守，点検，修理などを行うと感電や火災，人身事故につながることがあります。
危険をさけるため，サービストレーニングを受けた技術者のみご使用ください。

⚠WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠AVERTISSEMENT

Ce manual est destiné uniquement aux personnes compétentes en charge de l’entretien. Afin de réduire les risques de décharge électrique, d’incendie ou de blessure n’effectuer que les réparations indiquées dans le mode d’emploi à moins d’être qualifié pour en effectuer d’autres. Pour toute réparation faire appel à une personne compétente uniquement.

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Manual Structure

Purpose of this manual

This manual is the maintenance manual for Camera Command Network Unit CNU-700. This manual describes the information items necessary when the unit is supplied and installed, items on maintenance, and items that premise the service based on the components parts such as schematic diagrams, board layouts and spare parts list, assuming use of system and service engineers.

Related manuals

Besides this maintenance manual the following manuals are available for this unit.

- **CNU-700 Operation Manual (Supplied with this unit)**
  This manual is necessary for application and operation of this unit.

- **System manual (Not supplied with this unit)**
  This manual is necessary for connection and operation of this unit and other peripheral equipment. If this manual is required, please contact your local Sony Sales Office/Service Center.

- **“Semiconductor Pin Assignments” CD-ROM (Available on request)**
  This “Semiconductor Pin Assignments” CD-ROM allows you to search for semiconductors used in Broadcasting & Professional Systems Company equipment.
  Semiconductors that cannot be searched for on this CD-ROM are listed in the maintenance manual for the corresponding unit. The maintenance manual contains a complete list of all semiconductors and their ID Nos., and thus should be used together with the CD-ROM.
  Part number: 9-968-546-XX

Contents

This followings are summaries of the each section for understanding the manual.

Section 1 Installation

Describes information about connector input/output signals, instance of configuration and function of internal switches.

Section 2 Service Overview

Describes information about replacement of part and PROM IC.

Section 3 Spare Parts

Describes parts list, exploded views and supplied accessories used in the unit.

Section 4 Semiconductor Pin Assignments

This section contains information on semiconductors used for the unit.
It includes a complete list of the semiconductors and their ID Nos. for retrieving information on “Semiconductor Pin Assignments” CD-ROM, which is available separately.
Please refer to this section together with the “Semiconductor Pin Assignments” CD-ROM.
Information on the semiconductors not contained in the CD-ROM at the time of issue of this manual, if any, is given in this section as well.

Section 5 Block Diagrams

Describes overall block diagram and the block diagrams for every circuit board.

Section 6 Schematic Diagrams

Describes schematic diagrams for every circuit board.

Section 7 Board Layouts

Describes board layouts for every circuit board.

Section 1
Installation

1-1. Supplied Accessories

Accessories	Sony Part No.	Qt'y
⚠ Power Cord (for UC) With 3P-plug Length : about 2.4 m Rated voltage : 125 V Rated current : 10 A	1-551-812-11	1
⚠ Power Cord (for CE) Without plug Length : about 2.5 m Rated voltage : 250 V Rated current : 10 A	1-782-929-11	1
⚠ Fuse (for UC) (5 A, 125 V)	1-532-747-11	1
⚠ Fuse (for CE) (T4AH, 250 V)	1-576-231-11	1
Plug holder B (for UC) C (for CE)	2-990-242-01 3-613-640-01	1 1
Operation Manual	—	1
Maintenance Manual	—	1

1-2. Adaptive Connectors and Cables

1-2-1. Connectors Input and Output signals

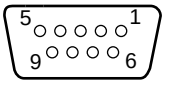
Main connector input and output signals are as follows.

BNC connector 75 Ω

[Input Signal]
- REFERENCE 300 mV p-p, loop through

[Output Signal]
- CHARACTER 700 mV p-p,
  300 mV p-p (SYNC)

RS232C-1/2/3 ∗1 (9P, FEMALE)



(EXTERNAL VIEW)

RS232C

No.	Signal	Specifications
1	DCD IN	DATA CARRIER DETECT
2	RXD IN	RECEIVED DATA
3	TXD OUT	TRANSMITTED DATA
4	DTR OUT	DATA TERMINAL READY
5	SIGNAL GND	SIGNAL GND
6	DSR IN	DATA SET READY
7	RTS OUT	REQUEST TO SEND
8	CTS IN	CLEAR TO SEND
9	NC	—

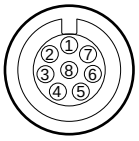
RS422 ∗2

No.	Signal	Specifications
1	DCD IN	DATA CARRIER DETECT
2	RXD (+) IN	RECEIVED DATA
3	TXD (+) OUT	TRANSMITTED DATA
4	TXD (–) OUT	TRANSMITTED DATA
5	SIGNAL GND	SIGNAL GND
6	RXD (–) IN	RECEIVED DATA
7	RTS OUT	REQUEST TO SEND
8	CTS IN	CLEAR TO SEND
9	NC	—

∗1 The RS232C-3 port can be used only when BKP-7930 is installed.
∗2 The RS232C-2 and RS232C-3 ports can be used for RS422 interface by changing the switch setting of S802 to S806 on IF-777 board.

REMOTE (8P, FEMALE)

RCP/CCU/MSU/VCS
AUX 1/2/3/4



(EXTERNAL VIEW)

No.	Signal	Specifications
1	TX (+)	CNU SERIAL DATA
2	TX (–)	
3	RX (+)	MSU/RCP/CCU/VCS/AUX
4	RX (–)	SERIAL DATA
5	TX GND	GND for TX
6	POWER (+)	*3
7	POWER (–)	*3
8	SPARE	
	CHASSIS GND	CHASSIS GND

*3
CCU1 to CCU6 CONNECTOR
6PIN . . POWER (+) IN
7PIN . . POWER (–) IN
RCP1 to RCP6, AUX1, AUX2, MSU
6PIN . . POWER (+) OUT (RCP POWER +25 V)
7PIN . . POWER (–) OUT (GND for Power)
VCS CONNECTOR
6PIN . . NOT USED
7PIN . . NOT USED

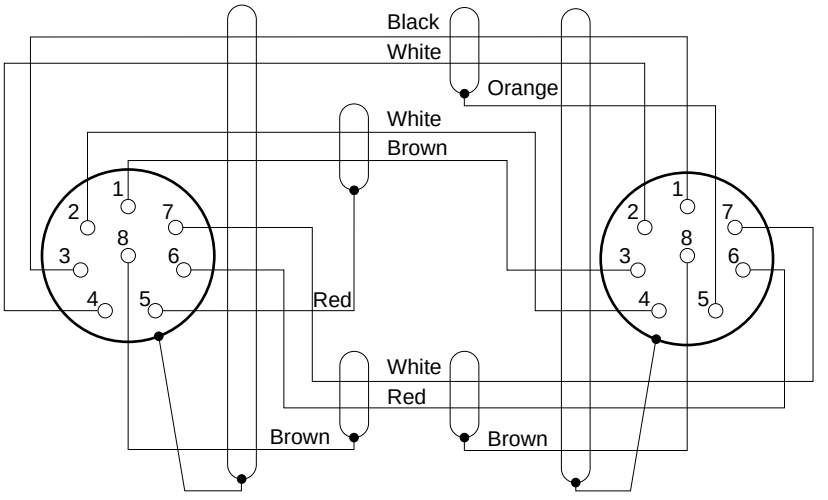
1-2-2. Connection Connector

Use the connectors below or the equivalent at its tip when cables are connected to each connector on the connector panel during installation and servicing.

Connector name	Connectoin connector/cable
REFERENCE CHARACTER (BNC)	1-569-370-12 Connector, BNC
RS232C (9P, FEMALE)	1-566-354-11 D-SUB, 9P MALE
CCU RCP MSU VCS AUX 1/2/3/4 (8P, FEMALE)	1-766-848-11 PLUG, 8P MALE or CCA cable assembly (option) CCA-5-10 (10 m) CCA-5-3 (3 m) CCA-5-30 (30 m)

1-2-3. Cable Wiring

CCA-5 Cable (for REMOTE connector)



1-3. Installation

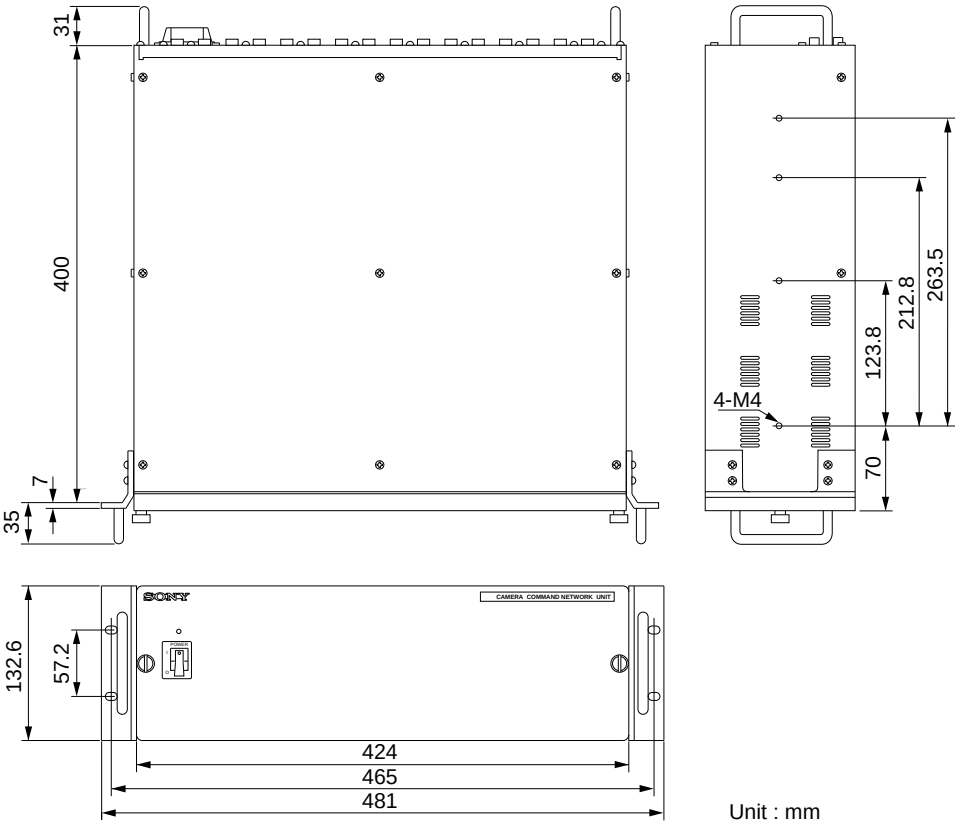
1-3-1. Installation Conditions

Operating temperature : 0˚C to +45˚C
Storage temperature : −20˚C to +50˚C
Humidity: No condense

Power sources : AC 100 V to 120 V (UC)
AC 110 V to 120 V/
AC 220 V to 240 V (CE)
Power frequency : 50/60 Hz
Power current : 4 A (MAX) : UC,
2.5 A (MAX) : CE

1. Do not put the unit in a place subject to high temperature or in a location near heat sources.
2. Do not put the unit in a place subject to excessive electric and magnetic fields.
3. Put the unit in a dry and well-ventilated place.
4. Do not put the unit in a place subject to excessive dust and mechanical shock.
5. Do not put the unit in a place subject to direct sunlight and light.

1-3-2. Outside Dimensions



Unit : mm

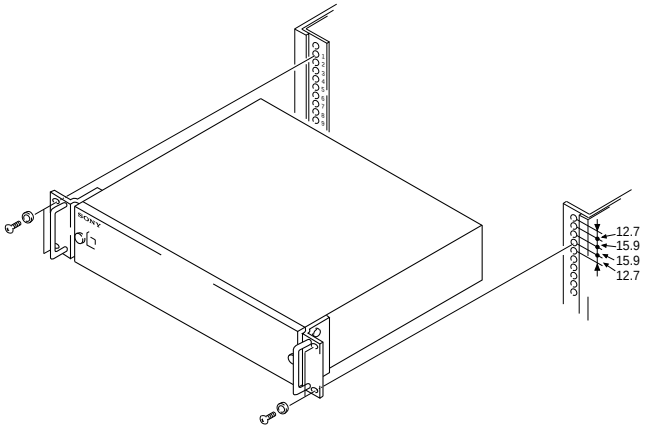
1-3-3. How to Mount in 19-inch Rack

The unit can be mounted in a 19-inch EIA standard rack. (The height of this unit is 3U.)

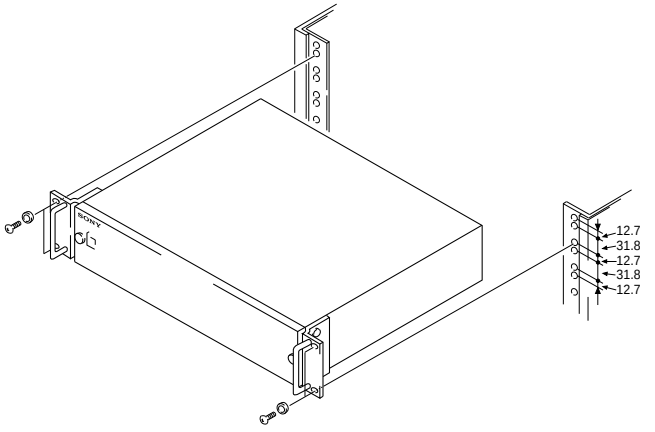
1. Fixing the rack angle to rack

Secure the right and left angles of the unit to the rack directly. This installation is enough good for daily use. Have two or more persons to do the installation.

• Universal-type Rack
  Secure the unit to the rack with the four screws.



• Wide-type Rack
  Secure the unit to the rack with the four screws.



2. Using the slide rails

If using the slide rails, it is convenient for putting the unit in and out frequently.
Three kinds of rails are now available.

a. RMM-30 (standard product)
b. SUA-861 (standard product)
c. Accuride® slide rails (commercially available)

a. RMM-30 (1 set)

Applicable rack
• The depth is 660 to 830 mm (26 to 32 3/4 inches) for 22” rail.

Installation
• Refer to the installation manual supplied with the RMM-30.

Note

The slide rails of the RMM-30 is equivalent to the Accuride®’s 305A-22. If you use rails which are different in length, we recommend the Accuride® made.

b. SUA-861 (1 set)

Applicable rack
• Sony SU-860 only

Installation
• Refer to the installation manual supplied with the SUA-861.

c. Accuride® slide rail

- Slide Rail: 1 set
  Accuride®'s No. 305A-18 (454 mm) or
  No. 305A-22 (556 mm)
- Bracket: 4
  Accuride®'s No. 5517-2
- Inner member fixing screws (+B4 × 8): 6
- Other screws, nuts
  Use parts recommended by Accuride®.
  Manufacture: Accuride, Inc.

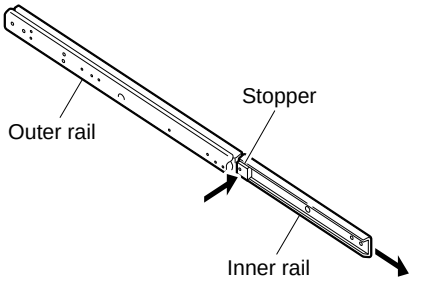
UNITED STATES
- Accuride
  12311 Shoemaker Avenue
  Santa Fe Springs, CA 90670
  TEL 213-903-0200
  FAX 213-903-0208
- Accuride
  Quality Drive
  Charlotte, NC 28217
  TEL 704-588-5880
  FAX 704-588-6316
- Accuride
  1930 Parco Avenue
  Ontario, CA91761
  TEL 714-923-9922
  FAX 714-947-8586

WEST GERMANY
- Standard-Praezision GmbH
  Postfach 1464
  Werner-von-Siemens-Strasse 16-18
  6252 Diez/Lahn West Germany
  TEL 6432-6080
  FAX 6432-60820

UNITED KINGDOM
- Accuride Limited
  Lilliput Road
  Brackmills Industrial Estate
  Northampton, NN4 OAR
  United Kingdom
  TEL 604-761111
  FAX 604-767190

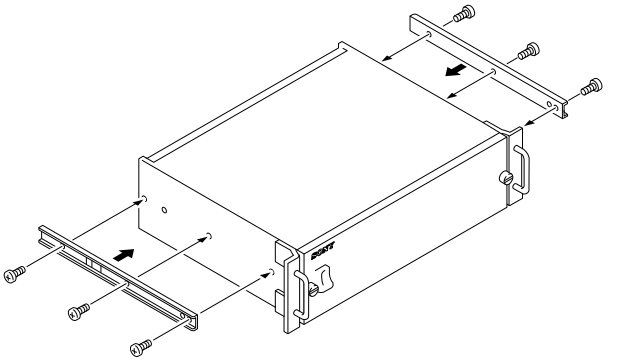
Installation

1. Pull out the inner rail while pressing the stopper.

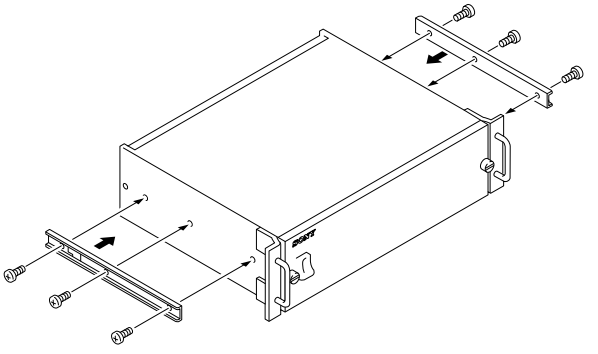


2. Fit the inner rail removed in step 1 to the unit using the six screws (+B4 × 8).

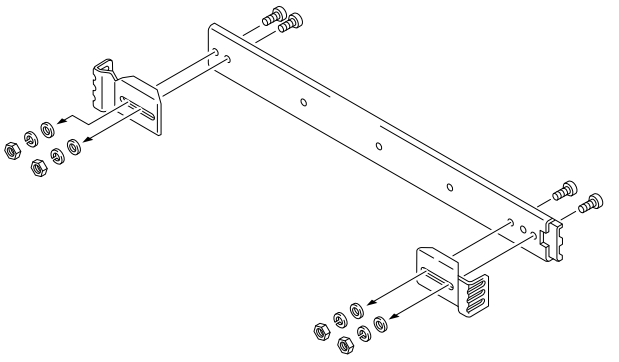
- Model 305A-22



- Model 305A-18

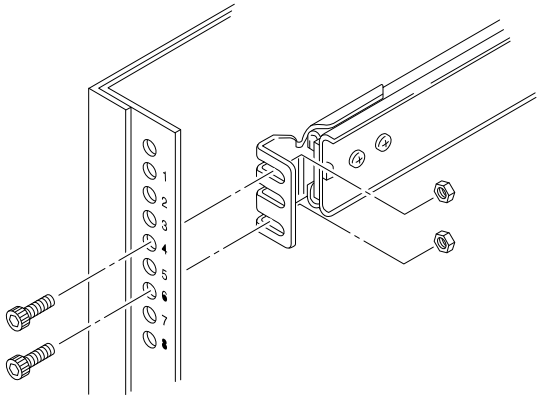


3. Temporarily fit the brackets to both ends of outer rail using the four screws (+B4 × 12).

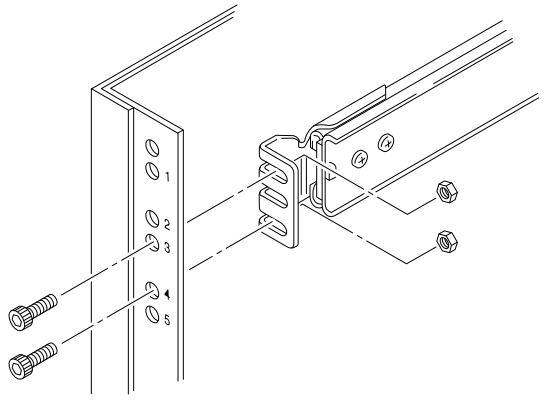


4. Adjust the position of the bracket in line with the rack depth and tighten the screws fixing the bracket.
5. Fit the bracket to the rack using the two hexagonal socket head bolts.

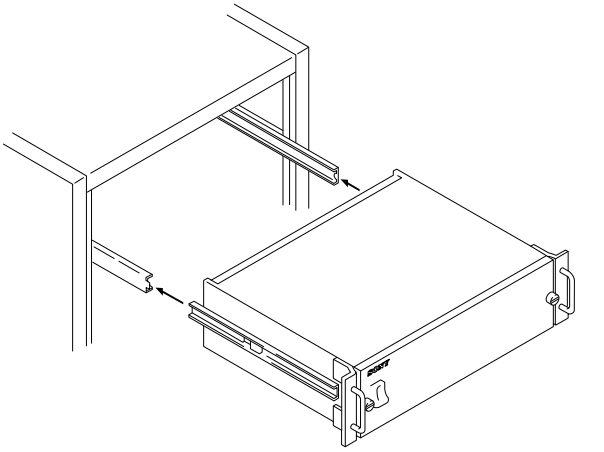
• Universal-type Rack



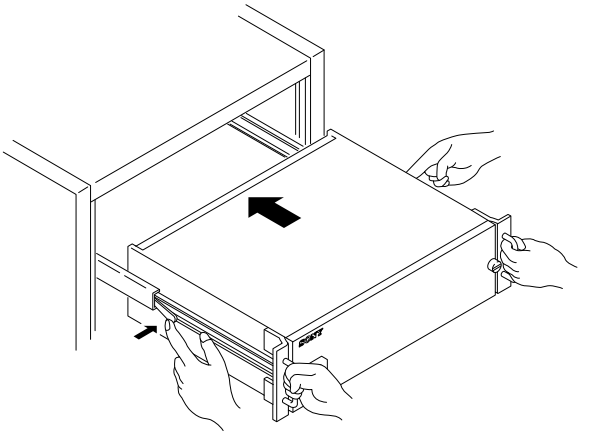
• Wide-type Rack



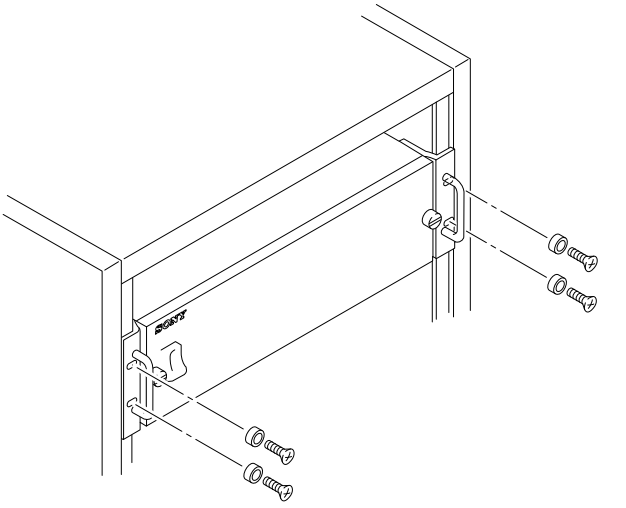
6. Pull out the outer rails.



7. While pressing the stoppers, slide the inner rails fully into the outer rails.
   Have two or more persons to do this work.



8. Secure the rack angles to the rack with the four screws (M5 × 10) and the four ornamental washers (ø5).



1-4. Function of Swiches on PC Board

AT-89A board

- S3-1 (625/525 SELECTION)
  Used to enable selecting the mode of the CHARACTER output signal when the video signal is not input to the REFERENCE terminal. When the switch is set to ON, the output signal becomes 625 line. When the switch is set to OFF (to figure side), the output signal becomes 525 line.
  Factory-setting: OFF (for UC)
  ON (for CE)

- S3-2 (Not used)
  Factory-setting: OFF

- S3-3
  When this switch is set to ON, “ALL” function of the MSU will be applied to the camera for which ACTIVE is indicated on the MSU.
  If this switch is set to OFF, “ALL” function of the MSU will be applied to all cameras connected to the CNU-700 at the same time.
  Factory-setting: OFF

- S3-4 to S3-7 (Not used)
  Factory-setting: All OFF

- S3-8 (TEST MODE ON/OFF)
  All setting data of the unit can be initialized by means of the following procedures.
  Note
  Since the setting data such as RCP ASSIGNMENT, etc. will be initialized, special care should be taken when executing this test.
  Factory-setting: OFF
  1. Turn off the power of CNU-700.
  2. Set S3-8 to on. Set S3-1 through S3-7 to OFF.
  3. Set the MODE switch S4 to “F.”
  4. Set the UP/DOWN switch S5 to “DOWN” and SET/CANCEL switch S6 to “SET,” namely, take the two switches S5 and S6 with your fingers.
  5. In the state of step 4, turn on the power of CNU-700 and maintains about ten seconds.
  6. Turn off the power of CNU-700 and reset all switches to their original positions.

- S4 (MODE)
  Factory-setting: 0
- S4-0 (NORMAL)
  Factory-setting position
- S4-1 (CRT UP/DOWN)
  The page displayed on the monitor through the CHARACTER terminal can be changed by switch S5 (UP/DOWN).

The contents of each page are shown below.

Page	Contents of display
0	No display
1	No display (when the power is turned on) When using a camera with the automatic setup function, or it any fault has been detected during self diagnosis, the corresponding details are displayed.
2	The connection states of cameras 1 to 6 are displayed.
3	The connection states of cameras 7 to 12 are displayed (when the BKP-7930 is being used).
4	The connection states of cameras 1 to 12 are displayed (when the BKP-7930 is being used).
5	The results of automatic setup for cameras 1 to 6 are displayed.
6	The results of automatic setup for cameras 7 to 12 are displayed (when the BKP-7930 is being used).
7	The results of all-camera diagnosis for cameras 1 to 6 are displayed.
8	The results of all-camera diagnosis for cameras 7 to 12 are displayed (when the BKP-7930 is being used).
9	DIAGNOSIS OF ONE MACHINE (The state of the selected device is displayed.)
10	DATA OF ALL CAMERAS (The settings for all connected cameras are displayed.)
11	DATA OF ONE CAMERA (The settings for the selected camera are displayed.)

- S4-2 (RCP ASSIGNMENT)
  The connecting condition between the RCP-700 series and CCU-700 series can be changed.
  Operate the switches S5 (UP/DOWN) and S6 (SET/CANCEL) in accordance with the monitor screen.

- S4-3
  Not used.

- S4-4 (DEFAULT RCP ASSIGNMENT)
  Use this switch when resetting the connecting condition between RCP-700 series and CCU-700 series.
  Operate the switches S5 (UP/DOWN) and S6 (SET/CANCEL) in accordance with the monitor screen.

- S4-5 (CNU INTERNAL MODE SETTING)
  Use this switch when linking the indication on pages 9 and 11 to the camera select of MSU-700 series.
  Operate the switches S5 (UP/DOWN) and S6 (SET/CANCEL) in accordance with the monitor screen.

- S4-6 to S4-A
  Not used

- S4-B to S4-F
  Since there are factory preset, don't change anything.

- S5 (MODE UP/DOWN)
  Use this switch together with S4-1, S4-2, S4-4, or S4-5. When it is set to S4-1, a page displayed on the monitor screen can be changed with UP/DOWN.

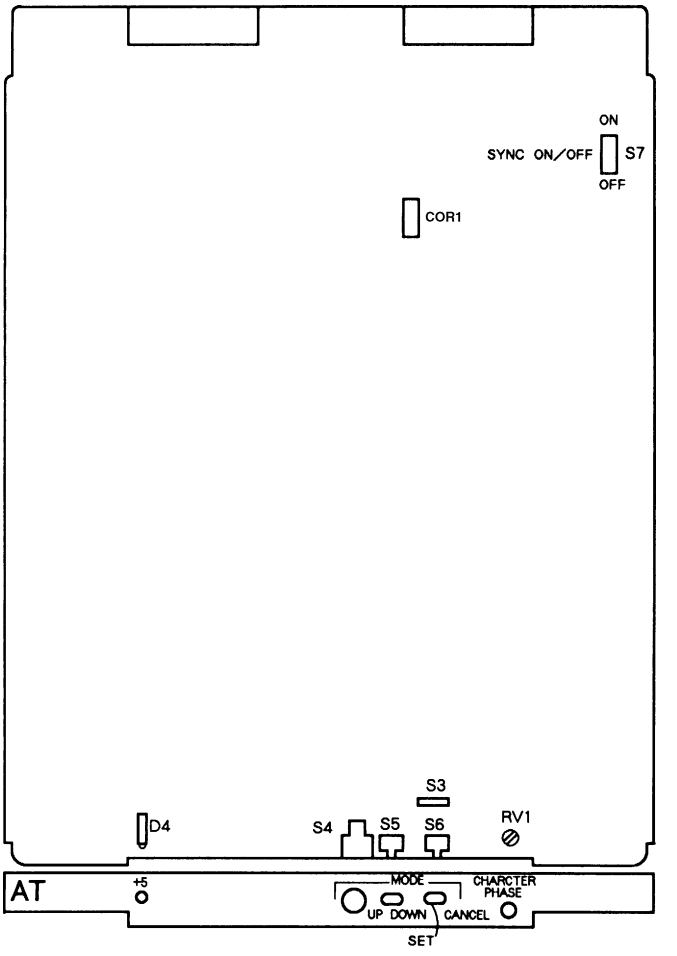
- S6 (MODE SET/CANCEL)
  Use this switch together with S4-1, S4-2, S4-4, or S4-5. "SET" or "CANCEL" can be performed with monitor screen accordingly.

- S7 (SYNC ON/OFF)
  This switch is used to determine whether the sync signal is added to the video signal output from the CHARACTER 1 and 2 terminals.
  Factory-setting: ON

- D4 (+5V INDICATOR)
  This LED lights up when the +5V is supplied to the AT-89A board correctly.

- RV1 (CHARACTER PHASE)
  Used to adjust the horizontal phase of the signal output from the CHARACTER terminal.
  Adjust RV1 if the monitor screen would not match up to the frame when there is a reference input signal.

- COR1 (Not used)
  A short-plug is connected between pins 1 and 2 at the factory.



AT-89A BOARD (A SIDE)

IF-777 board

- S801 (OPERATION NORMAL/EMERGENCY)
  When the CNU-700 or the master setup unit does not operate normally, set this switch to [EMERGENCY]. As a result, the corresponding camera and control panel, e.g, camera 1 and RCP-1, or camera 2 and RCP-2, are directly connected to enable the control of each camera from the corresponding control panel. In this case, the operating of MSU-700 series or VCS-700 cannot be used.
  Factory-setting: NORMAL

- S802 to S806
  The RS232C-2 and RS232C-3 terminals on the rear panel enable the unit to be controlled from an external device. The S802 to S806 switches are used to change these terminals to provide on RS-422 interface.

  When pins 1 and 2 are jumped (factory setting), the corresponding terminal provides an RS-232C interface. When pins 2 and 3 are jumped, the corresponding terminal provides an RS-422 interface.

- S901 (BAUD RATE SETTING)

S901 Pin No.	**1, 2, 3**	**4, 5, 6**
CNU-700	RS232C-1	RS232C-2
When the BKP-7930 is being used	—	RS232C-3

S901 Pin No.	**SETTING POSITION**							
1, 4	OFF	ON	OFF	ON	OFF	ON	OFF	ON
2, 5	OFF	OFF	ON	ON	OFF	OFF	ON	ON
3, 6	OFF	OFF	OFF	OFF	ON	ON	ON	ON
BAUD	19,200	38,400	9,600	4,800	2,400	1,200	600	300

  These switches are factory-set to all OFF. Pins 7 and 8 are not used.

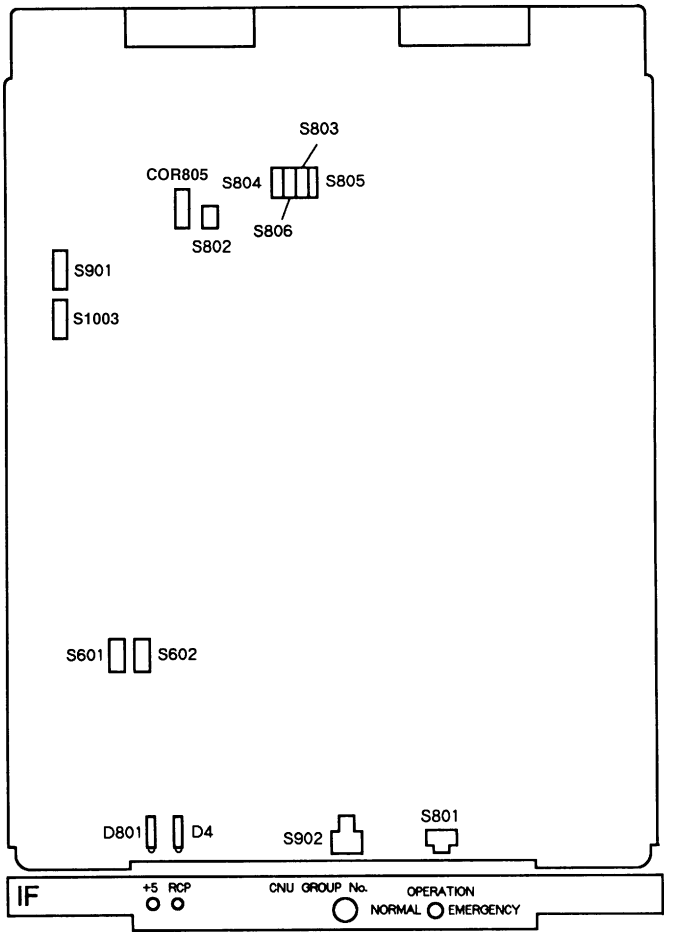
- S902 (CNU GROUP No.)
  Used to specify the group number of the CNU-700. You cannot specify a number that is already being used in the system.
  Factory-setting: 0

- D4 (RCP INDICATOR)
  This D4 keep lighting while the Power is supplied to the remote control panel via RCP terminal correctly.

- D801 (+5 V INDICATOR)
  This D801 keeps lighting while the +5 Vdc Power is supplied to the IF-777 board correctly.

- COR 805 (Termination for RS-422A)
  RS-422A is terminated when inserting a short-plug in between pins 2 and 3.
  The short-plug is connected between pins 1 and 2 at the factory.

- S1003 (Not used)
  Factory-setting: OFF



IF-777 BOARD (A SIDE)

1-5. Optional Board Unit (BKP-7930)

1-5-1. Outline of BKP-7930

The BKP-7930 is a CNU IF board for the camera command network unit CNU-700.
When the CNU-700 with the BKP-7930 incorporated is used, up to six color video cameras and up to six remote control panels can be connected to it.

1-5-2. Configuration of BKP-7930

Part Name	Qt'y
Switching Regulator	1
IF-777 board	1
Command Panel Assembly	1
Screw (+PSW3 × 6)	4

Note

Be sure not to duplicate the preset number of the switch S902 (CNU GROUP No.) on the IF-777 board in the system.
Factory-setting is "1".

1-5-3. Checking ROM Version

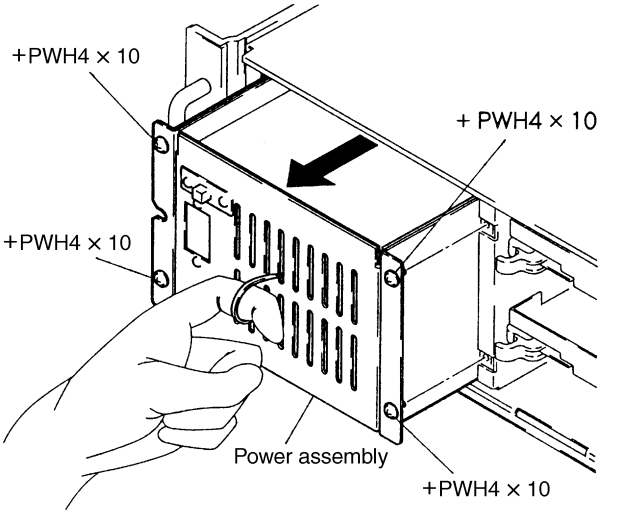
When installing the BKP-7930 in the CNU-700, be sure to check the ROM versions for IC4 and IC5 on the AT-89/89A board of the CNU-700 are Ver. 3.10 or higher. If ROM replacement is required, please contact your local Sony Sales Office/Service Center.

ROM Version

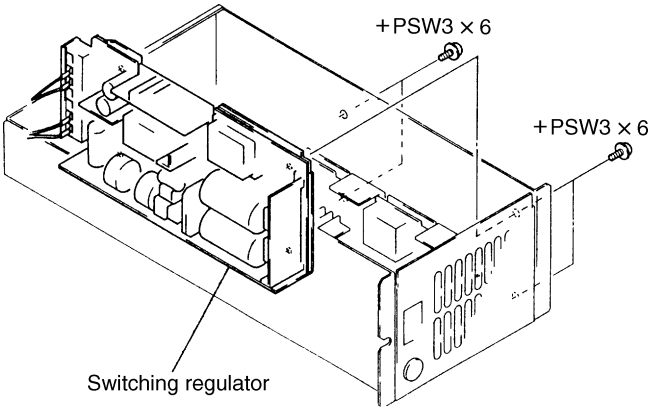
IC4, IC5 (AT-89/89A board) Ver. 3.10 or higher

1-5-4. Installation of BKP-7930

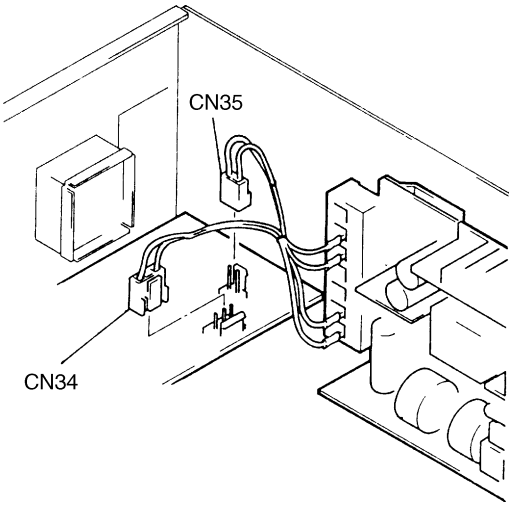
1. Loosen two screws (M4 × 10) and remove the front panel (Refer to Section 2-1-2).
2. Remove the four screws (+PWH4 × 10), then pull out the power assembly.



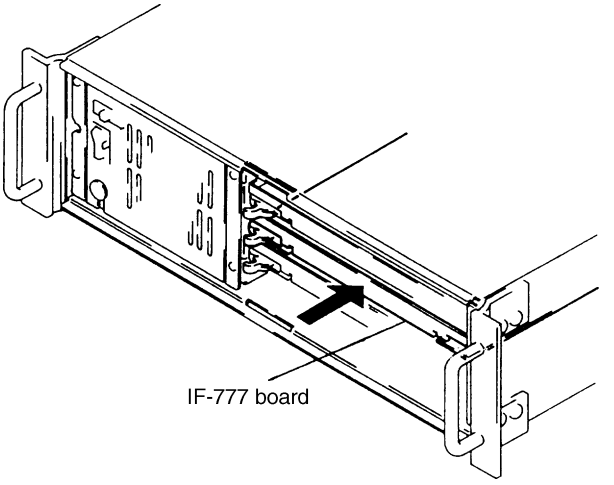
3. Remove the five screws (+PSW3 × 6), then remove the top cover of the power assembly.
4. Insert the switching regulator. Fix it place using the supplied four screws (+PSW3 × 6).



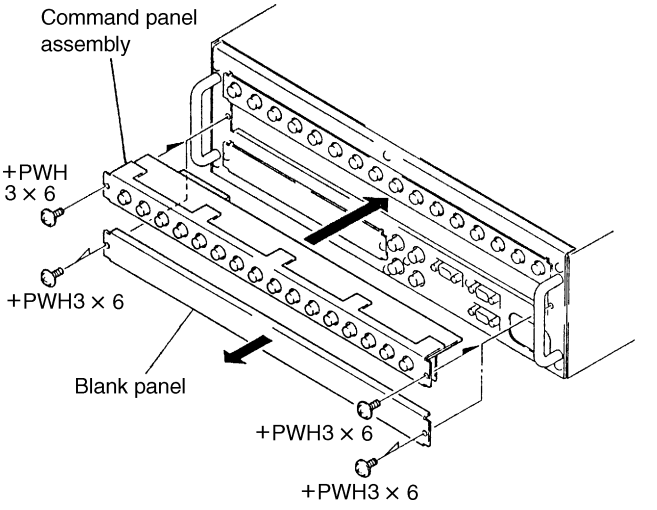
5. Connect the harness extending from the switching regulator to CN34 and CN35 on the CN-1002 board respectively.



6. Assemble the power assembly are return it to its original position.
7. Insert a new IF-777 board into the second slot from the top.

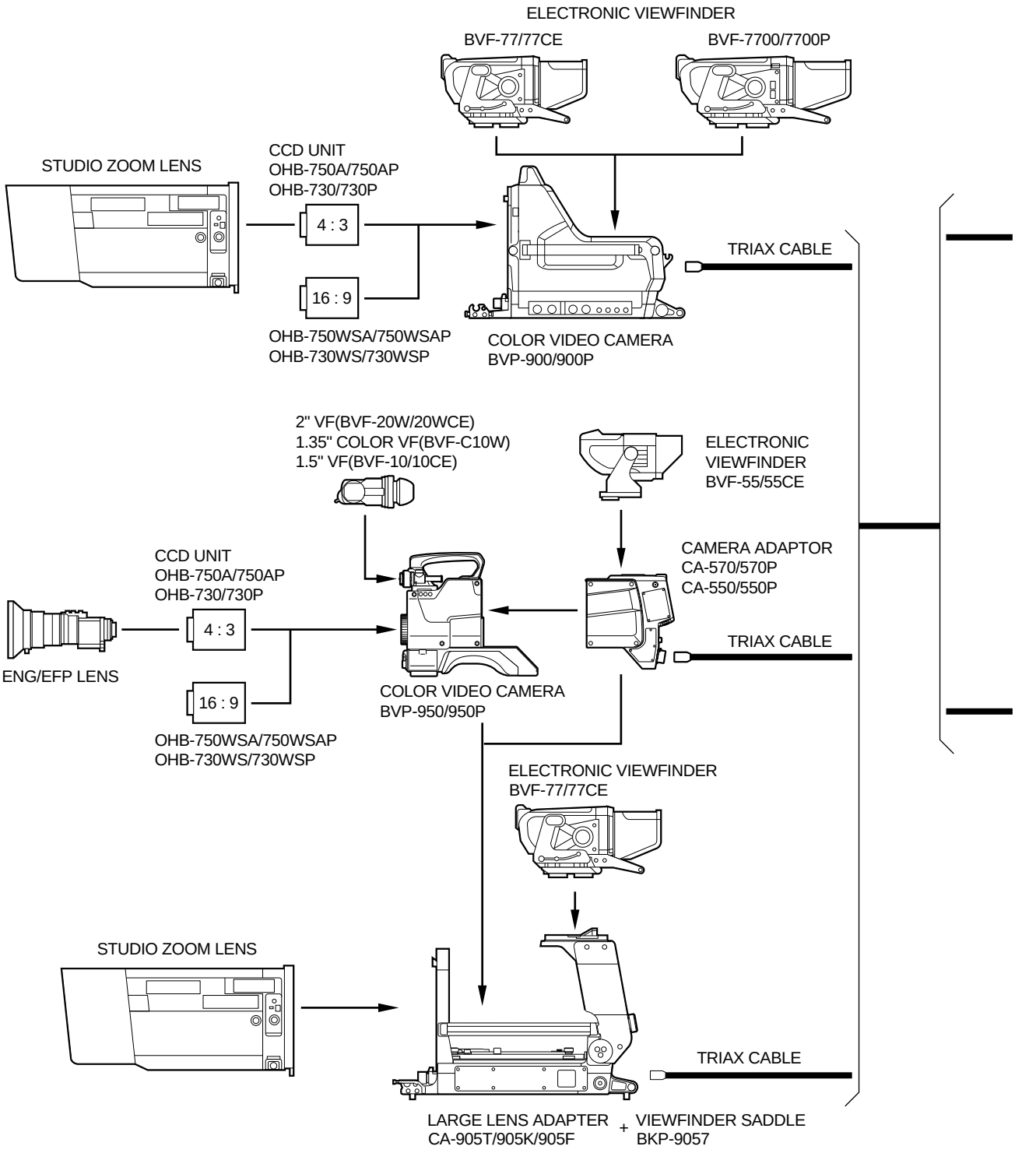


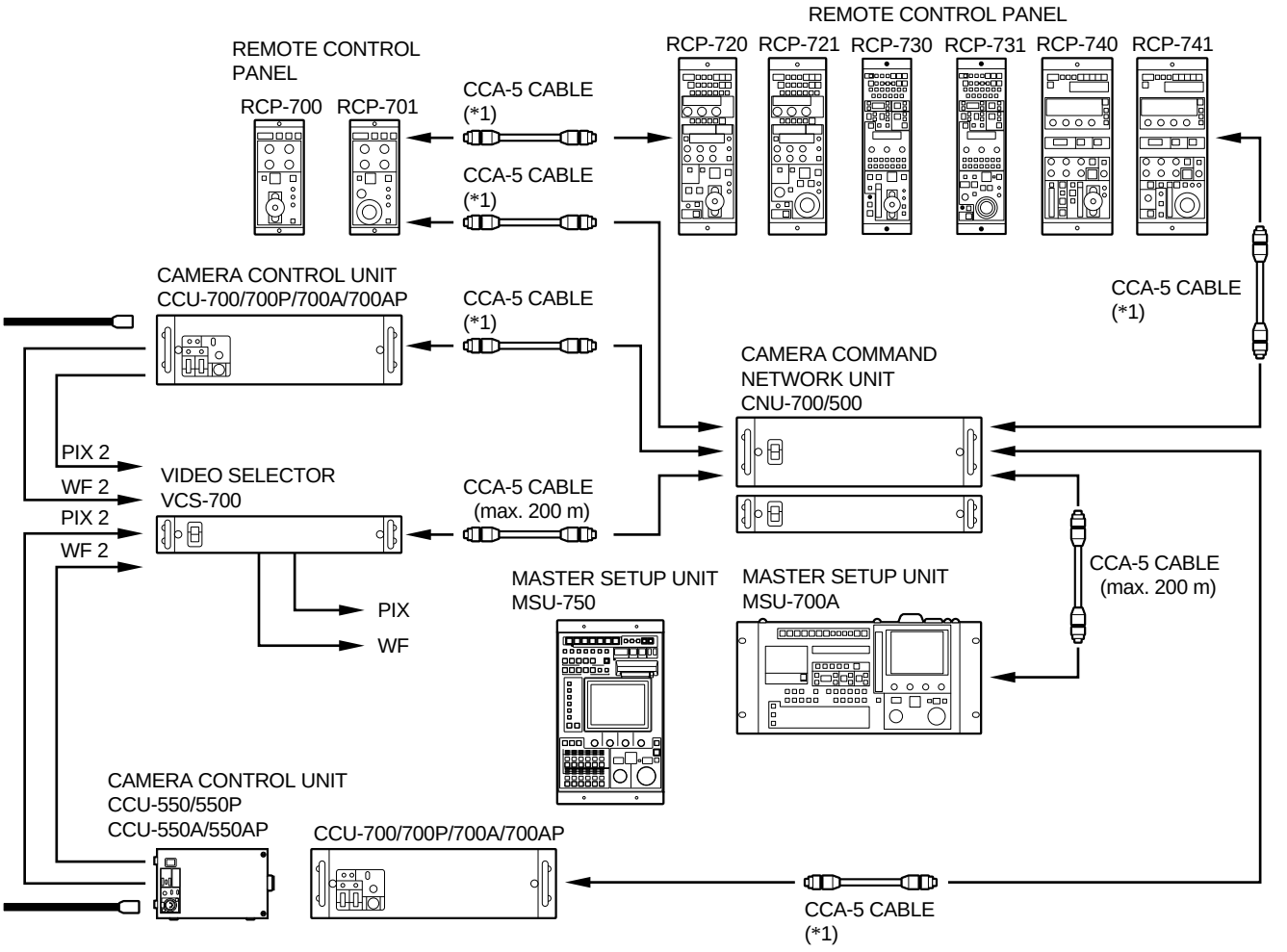
8. Reinstall the front panel.
9. Remove the two screws (+PWH3 × 6) holding blank panel. Remove the blank panel.
10. Mount the command panel assembly using the two screws (+PWH3 × 6).



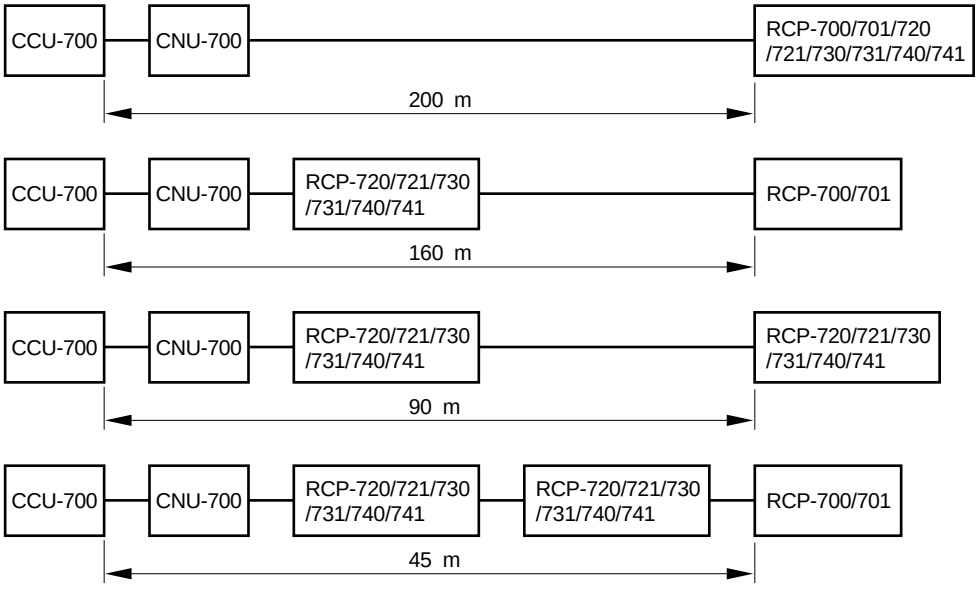
1-6. Instance of System Configuration

1-6-1. BVP-900 Series Camera System

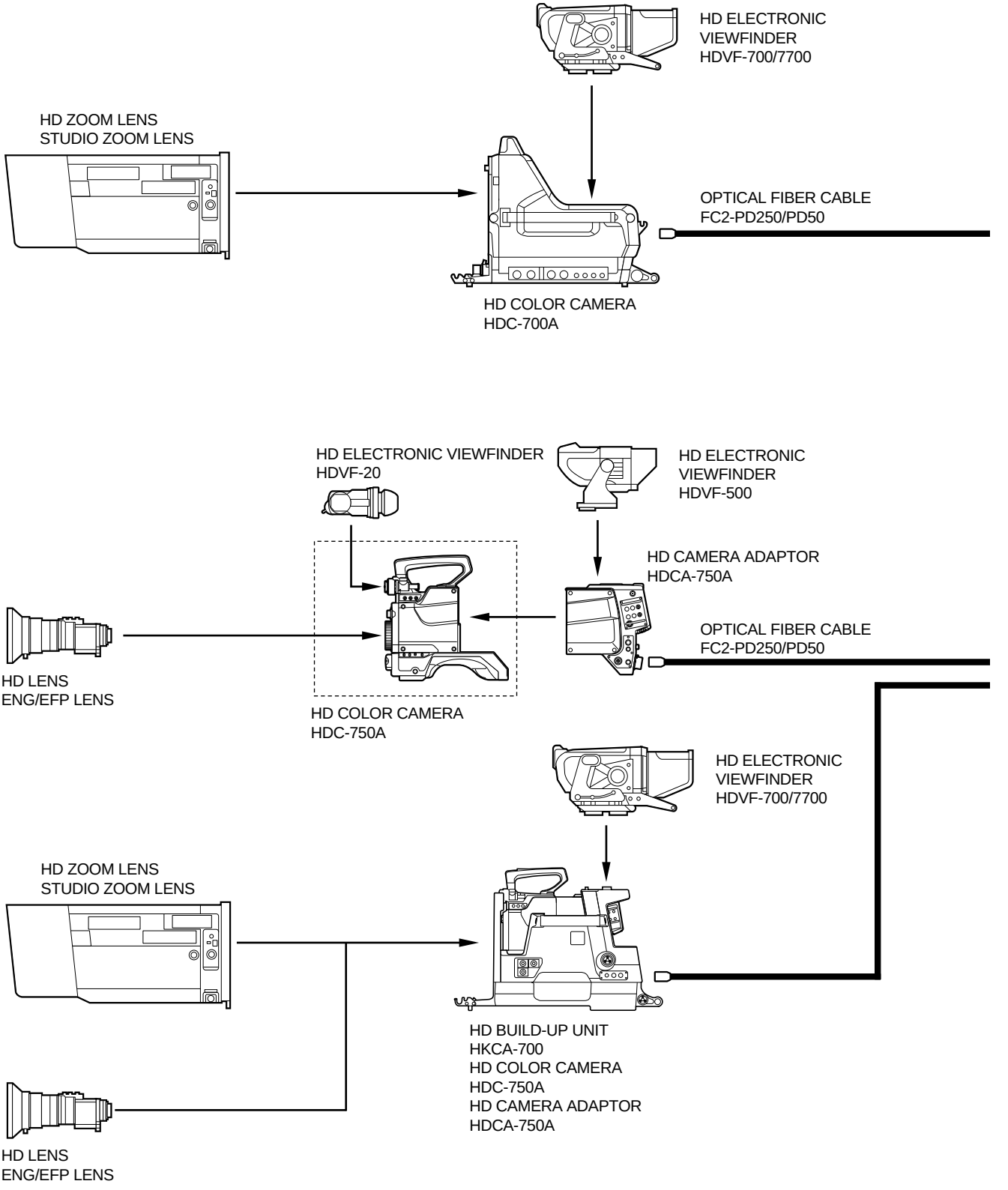


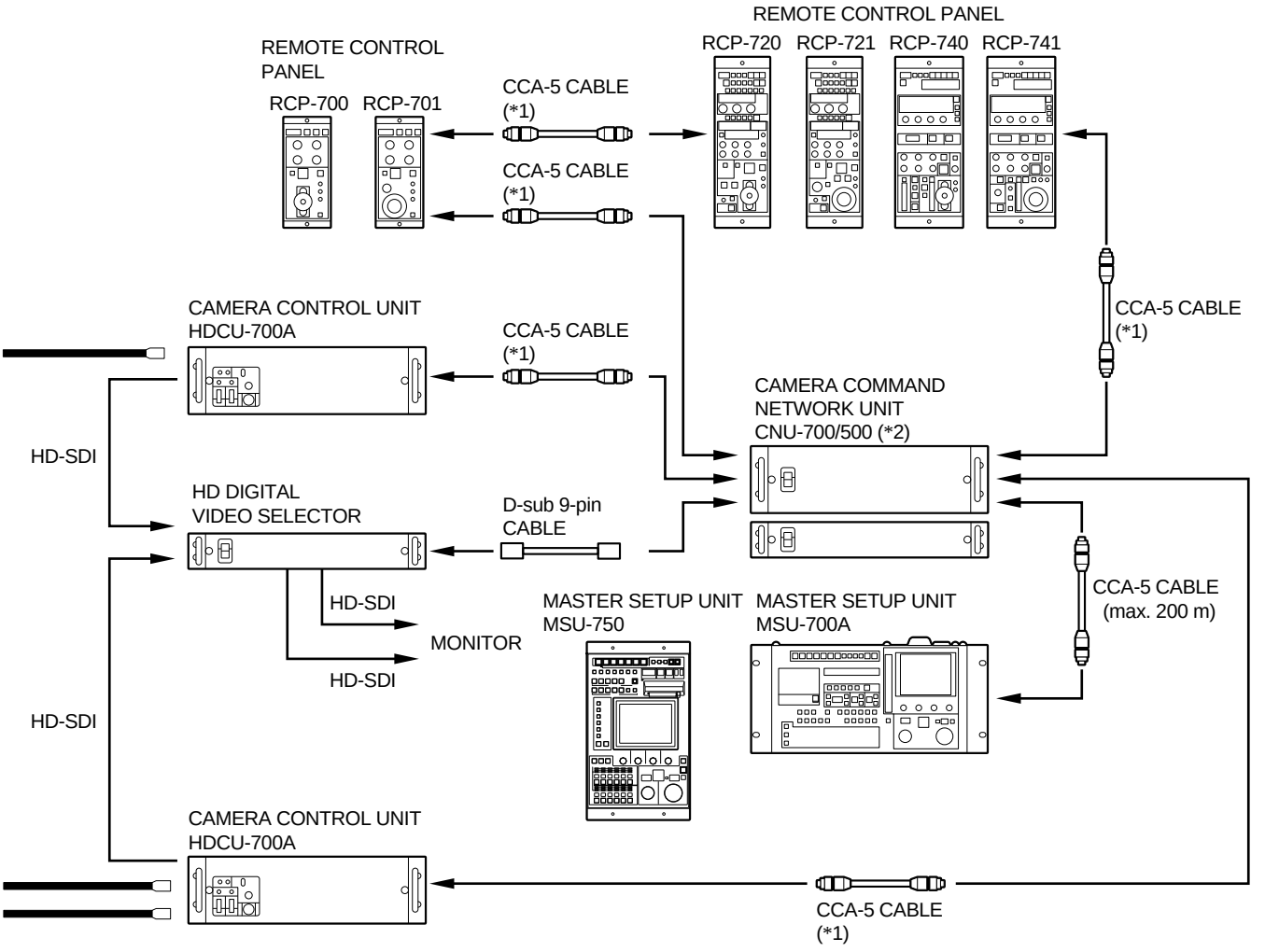


*1: CCA-5 CABLE LENGTH

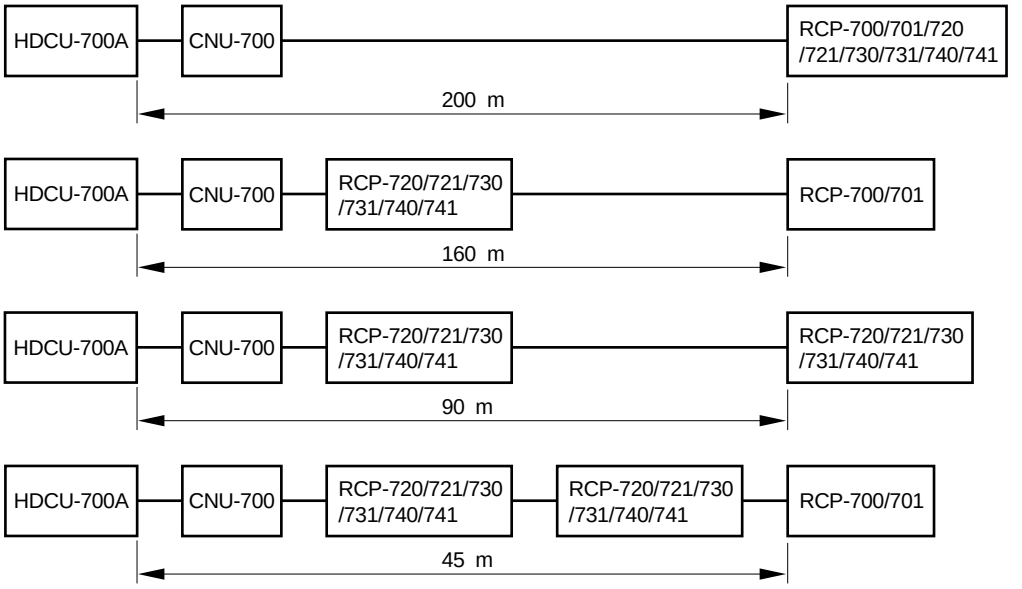


1-6-2. HDCA-700A Series Camera System





*1: CCA-5 cable length



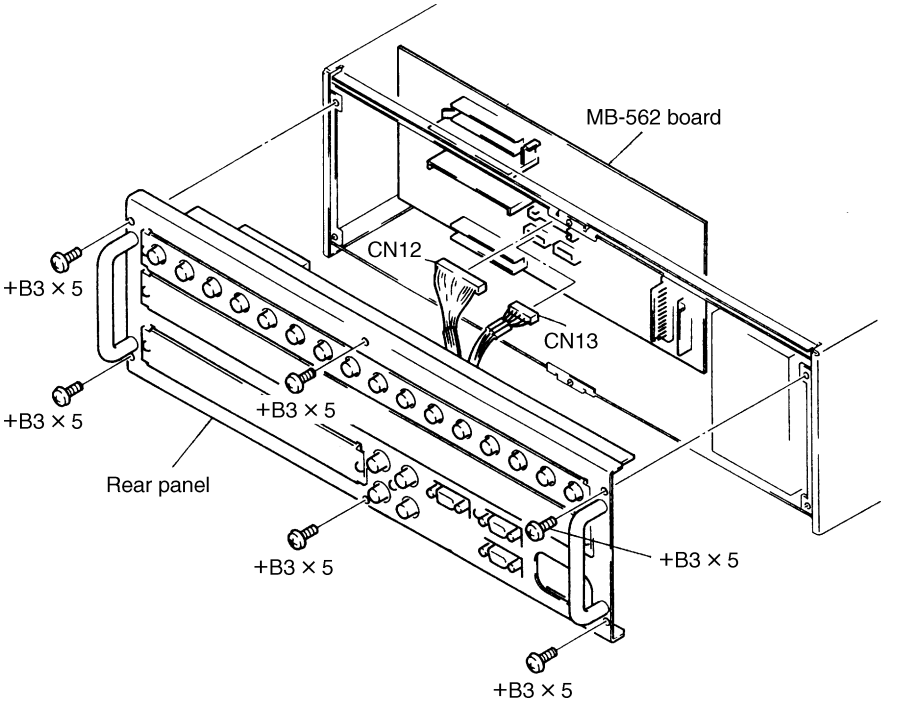
*2: Installation of HD Master Set-up Kit HKCF-700 is needed in some cases. For details, consult your local Sony Sales Office/Service Center.

Section 2
Service Overview

2-1. Replacement of Main Parts

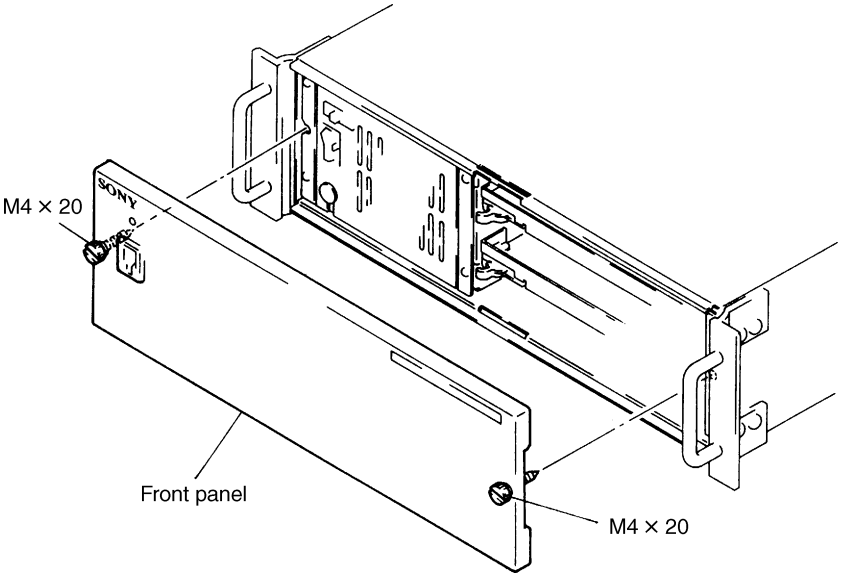
2-1-1. Removal of Rear Panel

1. Remove the six screws (+B3 × 5).
2. Disconnect the two connectors CN12 and CN13 from the MB-562 board, and remove the rear panel.



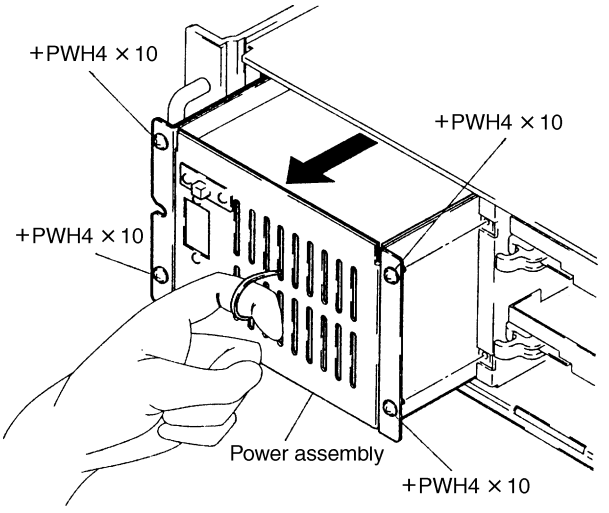
2-1-2. Removal of Front Panel

1. Loosen the two screws (M4 × 20) and remove the front panel.

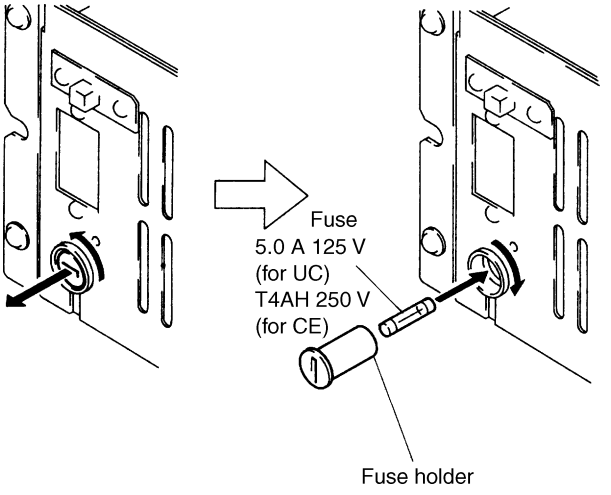


2-1-3. Replacement of Power Assy

1. Pull out the power cord from the rear panel.
2. Remove the front panel. (Refer to Section 2-1-2.)
3. Loosen the four screws (+PWH4 × 10) and pull out the power assembly as illustrated.



4. Before installation, put a supplied fuse into a fuse holder.



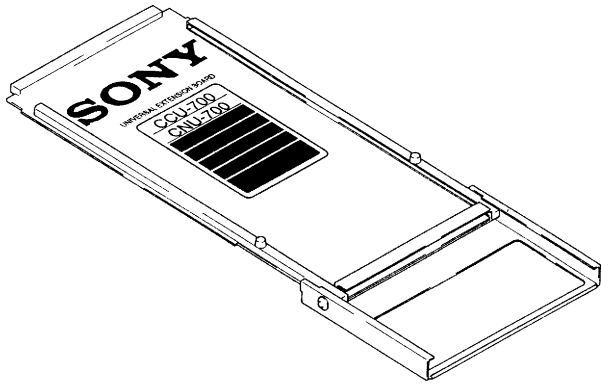
5. Carry out the installation work using the reverse procedure.

2-2. PROM IC

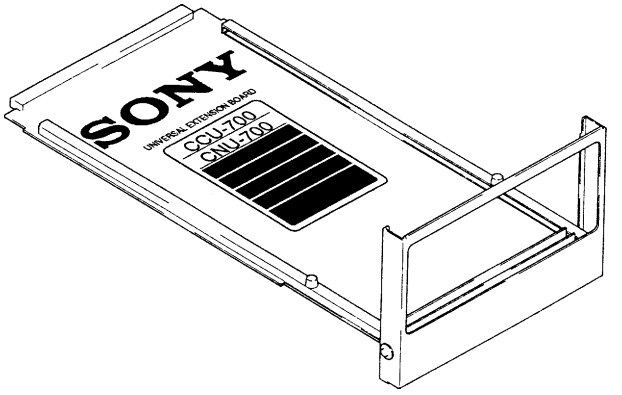
Each PROM IC on the PC board has a suffix to its original designation . This suffix may change accordiong to improvement of IC. Never use an IC having no suffix to its original designation, because its memory has not been programmed. Each PROM IC is mounted on the PC board via socket.

2-3. Tools and Fixtures

Extension board BKP-7900.
Please order the standard product.



Extension board JX-428
Sony Parts No. J-6394-280-A



Section 3
Spare Parts

3-1. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

Components marked ⚠ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.
Parts list has the present standardized repair parts.

3. Stock of Parts

Parts marked with “o” at SP (Supply Code) column of the spare parts list may not be stocked. Therefore, the delivery date will be delayed.

4. Harness

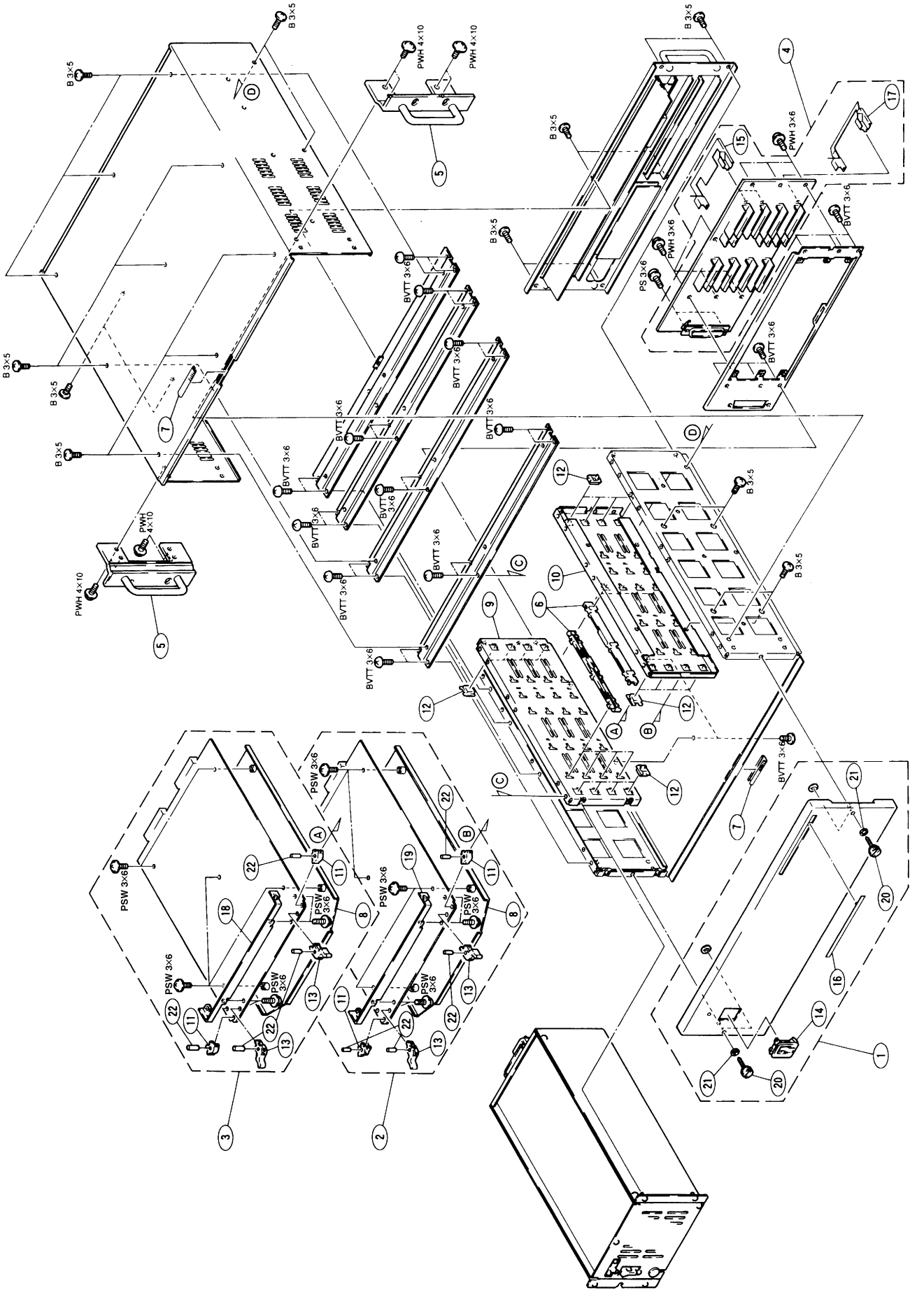
Harnesses with no part number are not registered as spare parts.
In need of repair, get components shown in the list and repair using them.

5. Destination Representation

The part indicated “For J/UC/CE” in the spare parts list is used in the unit written below.

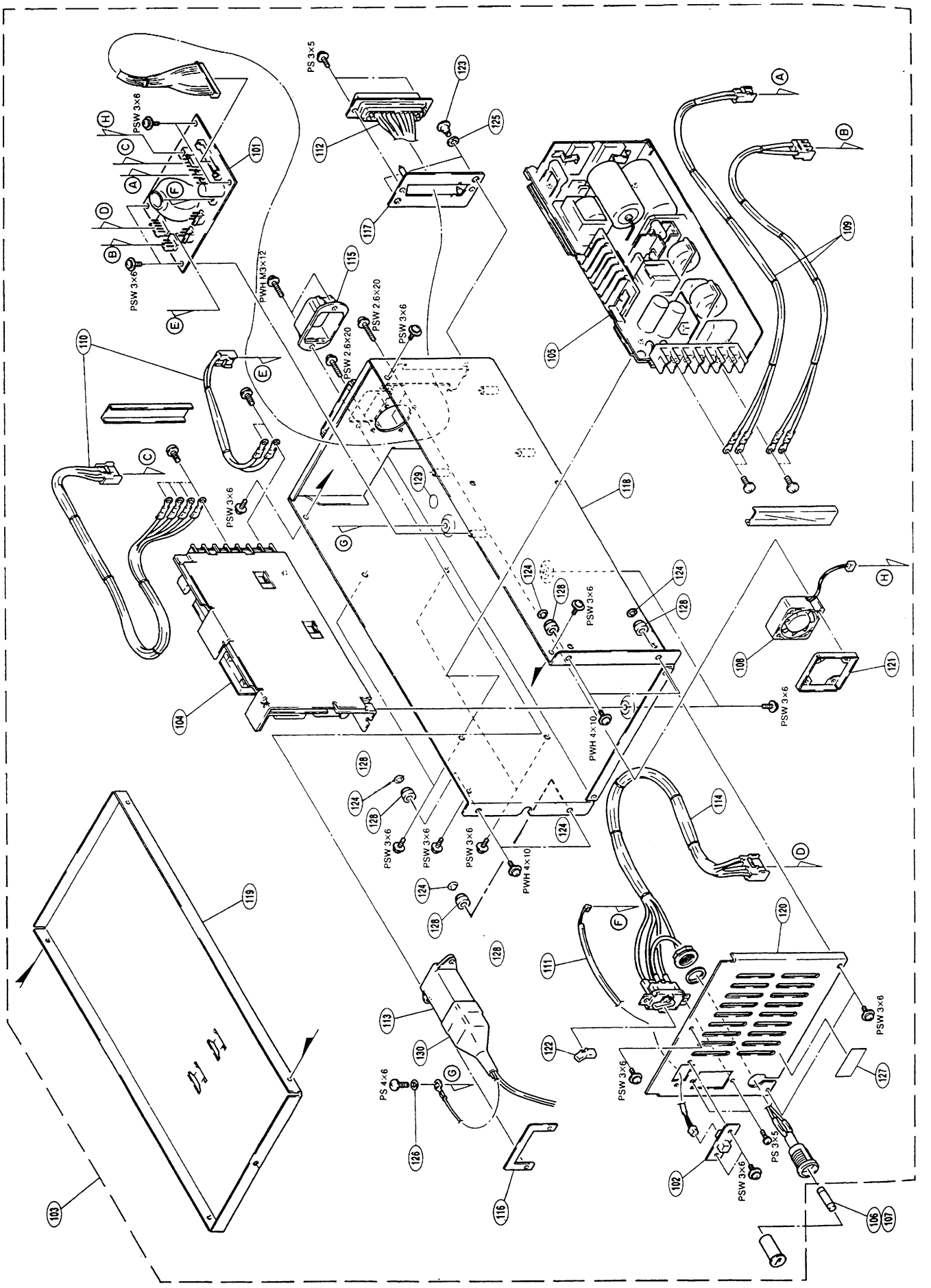
For J: The part is used in a unit for Japan.
For UC: The part is used in a unit for the U.S.A. and Canada.
For CE: The part is used in a unit for regions except the above countries.

3-2. Exploded Views



No.	Part No.	SP	Description
1	A-8278-055-A	o	FRONT ASSY
2	⚠ A-8324-786-A	o	MOUNTED CIRCUIT BOARD, AT-89A
3	⚠ A-8324-788-A	o	MOUNTED CIRCUIT BOARD, IF-777
4	A-8314-150-A	o	MOUNTED CIRCUIT BOARD, MB-562
5	X-2127-218-3	o	ANGLE (3U) ASSY, RACK
6	3-169-099-01	o	RAIL, PC BOARD GUIDE
7	3-175-260-01	o	FINGER, SNAP
8	3-681-020-01	o	PC SHIELD PLATE
9	3-681-029-12	o	RAIL PLATE L
10	3-681-031-12	o	RAIL PLATE R
11	3-681-042-01	o	LEVER, PC BOARD(1)
12	3-681-043-01	o	GUIDE
13	3-681-045-01	o	LEVER, PC BOARD(2)
14	3-681-054-01	o	POWER SW GUARD
15	3-681-056-03	o	BOARD GUIDE
16	3-681-068-02	o	NAME LABEL
17	3-681-069-03	o	BOARD GUIDE 2
18	3-681-070-01	o	PC BOARD PANEL IF
19	3-681-071-01	o	PC BOARD PANEL AT
20	3-687-887-01	s	SCREW(M4X20) (COPPER)
21	7-623-925-01	s	WASHER,PLASTIC (4X0.5)
22	7-626-320-11	s	SPRING PIN,3X8 (STEEL)

Power Assy


PS 3×5
PSW 3×6
PWH M3×12
PSW 2.6×20
PSW 3×6
PSW 3×6
PSW 3×6
PWH 4×10
PSW 3×6
PSW 3×6
PSW 3×6
PWH 4×10
PS 4×6
PSW 3×6
PSW 3×6
PS 3×5
PSW 3×6
PSW 3×6
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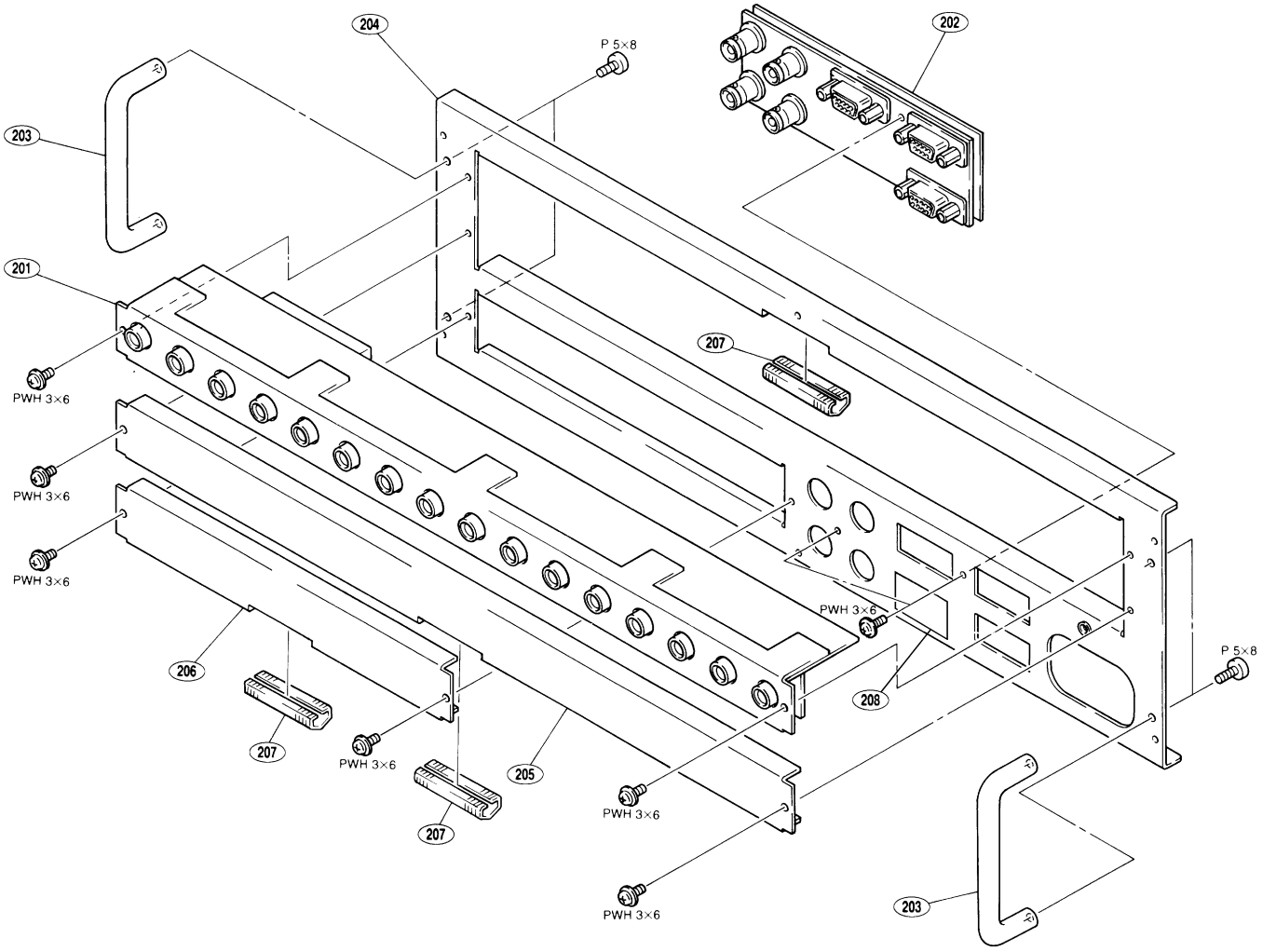
No.	Part No.	SP	Description
101	⚠ A-8314-146-A	o	MOUNTED CIRCUIT BOARD, CN-1002
102	A-8314-149-A	o	MOUNTED CIRCUIT BOARD, LED-223
103	⚠ A-8314-737-A	s	POWER UNIT(RP)
104	⚠ 1-413-917-12	s	SWITCHING REG.(TDK.FAW05-10R)
105	⚠ 1-468-496-11	s	SWITCHING REG. (TDK FGW28-3R6)
	(⚠ 1-576-230-11	s	FUSE 2A/125V)
106	⚠ 1-532-747-11	s	FUSE,GLASS 5A/125V (20MM) (FOR NTSC)
107	⚠ 1-576-231-11	s	FUSE,(H.B.C) 4A/250V (FOR PAL)
108	1-698-131-21	s	FAN, DC MOTOR
109	⚠ 1-953-648-11	o	HARNESS, SUB (RCP-POWER1)
110	⚠ 1-953-649-12	o	HARNESS, SUB (5V POWER)
111	1-953-650-12	o	HARNESS, SUB (LED)
112	1-953-651-12	o	HARNESS (MAIN POWER)
113	⚠ 1-953-654-11	o	HARNESS (AC IN)
114	⚠ 1-953-655-11	o	HARNESS (AC SW)
115	2-990-241-02	s	HOLDER (A), PLUG
116	3-625-620-00	s	BRACKET, AC CONNECTOR
117	3-681-055-12	o	50PIN PLATE
118	3-681-059-05	o	PS CHASSIS
119	3-681-061-03	o	PS LID
120	3-681-062-03	o	PS PANEL
121	3-681-066-12	o	FAN HOLDER
122	3-688-814-01	s	CAP,SWITCH
123	3-694-825-11	s	SCREW M3 STEP,SPECIAL HEAD ST
124	3-701-440-21	s	WASHER PLASTIC (3.5X0.5) (PLA)
125	7-688-004-02	o	WASHER (4)(EP-FE/ZNBK/CM2)
126	7-688-004-11	o	WASHER W4 (M)(EP-FE/ZN/CM2)
127	3-683-338-31	o	FUSE LABEL
128	3-603-809-01	o	SPACER
129	3-704-231-01	o	LABEL, SAFETY GROUND
130	4-605-511-02	o	COVER, INLET, 3P

Rear Panel Block



No.	Part No.	SP	Description
201	A-8314-137-A	o	PANEL ASSY, COMMAND
202	A-8324-836-A	o	MOUNTED CIRCUIT BOARD, CN-1001
203	2-378-801-01	s	HANDLE
204	3-681-058-04	o	REAR PANEL
205	3-681-064-04	o	BLANK PANEL(1)
206	3-681-065-04	o	BLANK PANEL(2)
207	3-175-260-01	o	FINGER, SNAP
208	3-184-994-03	o	ISR STICKER (S)

Part No.	SP	Description
7-621-760-10	s	SCREW +PSW 2.6X20
7-626-320-11	s	SPRING PIN,3X8(STEEL)
7-682-275-09	s	SCREW +K 5X10
7-682-545-09	s	SCREW +B3X4
7-682-546-04	s	SCREW +B3X5
7-682-546-09	s	SCREW +B3X5
7-682-574-04	s	SCREW +B5X8
7-682-646-09	s	SCREW +PS 3X5
7-682-660-09	s	SCREW +PS 4X6
7-682-903-19	s	SCREW +PWH 3X6
7-682-903-49	s	SCREW +PWH 3X12
7-682-904-21	s	SCREW +PWH 4X10
7-682-947-01	s	SCREW +PSW 3X6
7-685-871-01	s	SCREW BVTT 3X6

3-3. Electrical Parts List

AT-89A BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8324-786-A	o	MOUNTED CIRCUIT BOARD, AT-89A
2pcs	T-911-336-31	o	SOCKET, IC (DIP) 40P
1pc	3-681-020-01	o	PC SHIELD PLATE
1pc	3-681-071-01	o	PC BOARD PANEL AT
2pcs	3-681-042-01	o	LEVER, PC BOARD(1)
2pcs	3-681-045-01	o	LEVER, PC BOARD(2)
4pcs	7-626-320-11	s	SPRING PIN,3X8 (STEEL)
9pcs	7-682-947-01	s	SCREW +PSW 3X6(EP-FE/ZN/CM2)
1pc	1-562-579-21	s	RECEPTACLE,CONNECTOR
C1	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C2	1-113-994-11	s	CAPACITOR TANTALUM 6.8MF/16V
C3	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C4	1-163-227-11	s	CAPACITOR CERAMIC 10PF/50V(CH)
C5	1-163-227-11	s	CAPACITOR CERAMIC 10PF/50V(CH)
C6	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C7	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C8	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C9	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C10	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C11	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C12	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C13	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C14	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C15	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C16	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C17	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C18	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C19	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C20	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C21	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C22	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C23	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C24	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C25	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C26	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C27	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C28	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C29	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C30	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C100	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C101	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C102	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C103	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C104	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C105	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C106	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C107	1-125-446-11	s	CAPACITOR DOUBLE LAYERS 0.47F
C108	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C109	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C110	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C111	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C112	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C113	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C114	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C115	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C116	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C117	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C118	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C119	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V

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Ref. No. or Q'ty	Part No.	SP	Description
C120	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C121	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C122	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C123	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C124	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C125	1-125-446-11	s	CAPACITOR DOUBLE LAYERS 0.47F
C200	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C201	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C202	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C203	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C205	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C206	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C207	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C208	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C209	1-163-275-11	s	CAPACITOR CERAMIC 1000PF/50V
C210	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C211	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C212	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C213	1-164-505-11	s	CAPACITOR,CHIP CERAMIC 2.2MF
C214	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C215	1-128-396-11	s	CAPACITOR,ELECT 470MF/10V CHIP
C216	1-163-137-00	s	CAPACITOR,CHIP CERAMIC 680PF
C217	1-104-852-11	s	CAPACITOR,TANTALUM 22MF/10V
C218	1-113-990-11	s	CAPACITOR TANTALUM 15MF/16V
C219	1-163-257-11	s	CAPACITOR CERAMIC 180PF/50V
C220	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C221	1-163-137-00	s	CAPACITOR,CHIP CERAMIC 680PF
C222	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C223	1-107-689-21	s	CAPACITOR TANTALUM 1MF/35V
C224	1-163-275-11	s	CAPACITOR CERAMIC 1000PF/50V
C225	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C226	1-128-396-11	s	CAPACITOR,ELECT 470MF/10V CHIP
C228	1-113-990-11	s	CAPACITOR TANTALUM 15MF/16V
C229	1-107-689-21	s	CAPACITOR TANTALUM 1MF/35V
C230	1-104-852-11	s	CAPACITOR,TANTALUM 22MF/10V
C231	1-163-245-11	s	CAPACITOR CERAMIC 56PF/50V
C232	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C233	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C234	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C235	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C236	1-128-396-11	s	CAPACITOR,ELECT 470MF/10V CHIP
C237	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C238	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C239	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C240	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C241	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C242	1-128-396-11	s	CAPACITOR,ELECT 470MF/10V CHIP
C243	1-163-263-11	s	CAPACITOR CERAMIC 330PF/50V
C244	1-128-396-11	s	CAPACITOR,ELECT 470MF/10V CHIP
C245	1-128-396-11	s	CAPACITOR,ELECT 470MF/10V CHIP
C246	1-113-990-11	s	CAPACITOR TANTALUM 15MF/16V
C247	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C248	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C300	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C301	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C302	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C303	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C304	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C305	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V

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Ref. No. or Q'ty	Part No.	SP	Description
C306	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C307	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C308	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C309	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C310	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C311	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C312	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C313	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C314	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C315	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C316	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C317	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C318	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C319	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C320	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C321	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C322	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C323	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C324	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C325	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C326	1-128-396-11	s	CAPACITOR,ELECT 470MF/10V CHIP
C327	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
CN1	1-561-772-00	o	CONNECTOR 30P
CN2	1-561-772-00	o	CONNECTOR 30P
CN3	1-774-668-11	o	CONNECTOR, BOARD TO BOARD 96P
CN4	1-774-668-11	o	CONNECTOR, BOARD TO BOARD 96P
CN6	1-506-475-11	o	PIN,CONNECTOR 10P
COR1	1-564-948-21	o	PIN,CONNECTOR 3P
D4	8-719-974-41	s	LED HLMP-6500-010
D100	8-719-210-39	s	DIODE EC10QS04
D101	8-719-948-48	s	DIODE HSM88AS-TL (TL)
D102	8-719-948-48	s	DIODE HSM88AS-TL (TL)
D200	8-719-105-51	s	DIODE RD3.6M-B1
D201	8-719-800-76	s	DIODE 1SS226
D202	8-719-210-39	s	DIODE EC10QS04
D203	8-719-157-23	s	DIODE RD4.7M-B
D204	8-719-800-76	s	DIODE 1SS226
IC1	8-759-973-71	s	IC TL7705CPS-B
IC2	8-759-242-70	s	IC TC7WU04F
IC3	8-759-242-70	s	IC TC7WU04F
IC4	8-759-657-64	s	IC 27C4002-CNUAT-4-L-V3.10
IC5	8-759-657-65	s	IC 27C4002-CNUAT-5-H-V3.10
IC10	8-759-378-13	s	IC IDT79R3041-20J
IC11	8-759-926-49	s	IC SN74HC245ANS
IC12	8-759-926-49	s	IC SN74HC245ANS
IC13	8-759-926-49	s	IC SN74HC245ANS
IC14	8-759-926-49	s	IC SN74HC245ANS
IC15	8-759-926-80	s	IC SN74HC573BNS
IC16	8-759-926-80	s	IC SN74HC573BNS
IC17	8-759-926-80	s	IC SN74HC573BNS
IC18	8-759-926-80	s	IC SN74HC573BNS
IC100	8-759-035-93	s	IC SC7S32F
IC101	8-759-925-85	s	IC SN74HC32ANS
IC106	8-759-577-62	s	IC KM6164002AJ-15T
IC107	8-759-577-62	s	IC KM6164002AJ-15T
IC108	8-759-577-62	s	IC KM6164002AJ-15T
IC109	8-759-577-62	s	IC KM6164002AJ-15T

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Ref. No. or Q'ty	Part No.	SP	Description
IC110	8-759-577-62	s	IC KM6164002AJ-15T
IC111	8-759-577-62	s	IC KM6164002AJ-15T
IC117	8-759-487-51	s	IC HN58C257AT10
IC118	8-759-487-51	s	IC HN58C257AT10
IC119	8-759-487-51	s	IC HN58C257AT10
IC120	8-759-487-51	s	IC HN58C257AT10
IC200	8-759-657-34	s	IC LC324260AJ-60-MPB
IC201	8-759-092-76	s	IC HA9P5020-5
IC203	8-759-987-27	s	IC LM1881M
IC204	8-759-035-93	s	IC SC7S32F
IC205	8-759-239-34	s	IC TC74HC4538AF
IC206	8-759-239-34	s	IC TC74HC4538AF
IC207	8-759-906-53	s	IC TL062CPS
IC208	8-759-242-78	s	IC TC7W02F
IC209	8-759-906-53	s	IC TL062CPS
IC210	8-759-011-65	s	IC MC74HC4053F
IC212	8-759-009-02	s	IC MC14046BF
IC213	8-759-360-97	s	IC YGV606B-F
IC215	8-759-242-64	s	IC TC4W53F
IC222	8-759-092-76	s	IC HA9P5020-5
IC224	8-759-054-08	s	IC MC34063AM
IC300	8-759-096-87	s	IC TC7WU04FU (TE12R)
IC301	8-759-035-90	s	IC SC7S02F
IC303	8-759-145-50	s	IC UPD71051GB-3B4
IC304	8-759-926-98	s	IC SN74HC4040ANS
IC307	8-759-521-07	s	IC MAX238CWG
IC308	8-759-148-14	s	IC UPD71055GB-3B4
IC309	8-759-148-14	s	IC UPD71055GB-3B4
IC310	8-759-926-77	s	IC SN74HC541ANS
IC311	8-759-926-77	s	IC SN74HC541ANS
IC312	8-759-926-77	s	IC SN74HC541ANS
IC313	8-759-926-49	s	IC SN74HC245ANS
IC314	8-759-926-49	s	IC SN74HC245ANS
IC315	8-759-926-49	s	IC SN74HC245ANS
IC316	8-759-926-49	s	IC SN74HC245ANS
IC317	8-759-926-48	s	IC SN74HC244ANS
IC320	8-759-926-05	s	IC SN74HC125NS
IC321	8-759-926-05	s	IC SN74HC125NS
L1	1-412-026-11	s	CHIP INDUCTOR 1UH (3225)
L2	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L3	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L4	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L100	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L101	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L102	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L103	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L104	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L105	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L200	1-412-031-11	s	CHIP INDUCTOR 47UH (3225)
L201	1-412-031-11	s	CHIP INDUCTOR 47UH (3225)
L202	1-412-031-11	s	CHIP INDUCTOR 47UH (3225)
L203	1-408-782-11	s	CHIP INDUCTOR 27UH (4532)
L204	1-412-031-11	s	CHIP INDUCTOR 47UH (3225)
L205	1-414-529-21	s	INDUCTOR (POWER)
L206	1-414-529-21	s	INDUCTOR (POWER)
L300	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L301	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L302	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)

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Ref. No. or Q'ty	Part No.	SP	Description
L303	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L304	1-414-529-21	s	INDUCTOR (POWER)
Q100	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q200	8-729-027-38	s	TRANSISTOR DTA144EAK-T146
Q201	8-729-027-38	s	TRANSISTOR DTA144EAK-T146
Q202	8-729-027-38	s	TRANSISTOR DTA144EAK-T146
Q203	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q204	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q205	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
R1	1-216-065-91	s	RESISTOR,CHIP 4.7K (2012)
R4	1-216-121-91	s	RESISTOR CHIP 1M 1/10W(2125)
R5	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R6	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R7	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R8	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R10	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R11	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R12	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R13	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R14	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R15	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R16	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R17	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R18	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R19	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R20	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R21	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R22	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R23	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R24	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R25	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R26	1-216-089-91	s	RESISTOR, CHIP 47K
R27	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R28	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R29	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R30	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R31	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R100	1-216-077-00	s	RESISTOR,CHIP 15K 1/10W(2012)
R101	1-216-065-91	s	RESISTOR,CHIP 4.7K (2012)
R102	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R103	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R200	1-216-097-91	s	RESISTOR,CHIP 100K 1/10W(2012)
R201	1-216-009-00	s	RESISTOR,CHIP 22 1/10W(2125)
R202	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R203	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R204	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R206	1-216-045-00	s	RESISTOR,CHIP 680 1/10W(2012)
R207	1-216-117-00	s	RESISTOR,CHIP 680K 1/10W(2012)
R208	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R209	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R210	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R211	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R212	1-216-089-91	s	RESISTOR, CHIP 47K
R213	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R214	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R215	1-216-077-00	s	RESISTOR,CHIP 15K 1/10W(2012)
R216	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R217	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R218	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R219	1-216-089-91	s	RESISTOR, CHIP 47K
R220	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R221	1-216-093-00	s	RESISTOR, CHIP 68K 1/10W(2012)
R222	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R223	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R224	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R225	1-216-105-91	s	RESISTOR,CHIP 220K 1/10W(2125)
R226	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R227	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R228	1-216-085-00	s	RESISTOR CHIP 33K 1/10W(2012)
R229	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R230	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R231	1-216-663-11	s	RESISTOR,CHIP 3.3K 1/10W(2012)
R232	1-216-656-11	s	RESISTOR,CHIP 1.6K 1/10W(2012)
R233	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R234	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R235	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R236	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R237	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R238	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R239	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R240	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R241	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R242	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R244	1-216-089-91	s	RESISTOR, CHIP 47K
R245	1-216-089-91	s	RESISTOR, CHIP 47K
R246	1-216-089-91	s	RESISTOR, CHIP 47K
R247	1-216-089-91	s	RESISTOR, CHIP 47K
R248	1-216-022-00	s	RESISTOR,CHIP 75 1/10W (2125)
R249	1-216-022-00	s	RESISTOR,CHIP 75 1/10W (2125)
R250	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R251	1-216-668-11	s	RESISTOR,CHIP 5.1K 1/10W(2012)
R252	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R253	1-216-679-11	s	RESISTOR CHIP 15K 1/10W (2012)
R255	1-216-677-11	s	RESISTOR,CHIP 12K 1/10W(2012)
R256	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R257	1-216-089-91	s	RESISTOR, CHIP 47K
R258	1-216-089-91	s	RESISTOR, CHIP 47K
R259	1-216-089-91	s	RESISTOR, CHIP 47K
R260	1-216-089-91	s	RESISTOR, CHIP 47K
R261	1-216-089-91	s	RESISTOR, CHIP 47K
R262	1-216-089-91	s	RESISTOR, CHIP 47K
R263	1-216-089-91	s	RESISTOR, CHIP 47K
R264	1-216-089-91	s	RESISTOR, CHIP 47K
R265	1-216-089-91	s	RESISTOR, CHIP 47K
R300	1-216-121-91	s	RESISTOR CHIP 1M 1/10W(2125)
R301	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R304	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R307	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R309	1-216-089-91	s	RESISTOR, CHIP 47K
R310	1-216-089-91	s	RESISTOR, CHIP 47K
R311	1-216-089-91	s	RESISTOR, CHIP 47K
R313	1-216-089-91	s	RESISTOR, CHIP 47K
R314	1-216-089-91	s	RESISTOR, CHIP 47K
R315	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R316	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R317	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R318	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)

(AT-89A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R319	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R320	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R321	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R322	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R323	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R324	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R325	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R326	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R327	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R328	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R329	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R330	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R331	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R332	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R333	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R334	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R335	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R336	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R337	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R338	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R339	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R340	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R341	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R342	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R343	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R344	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R345	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R346	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R347	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R348	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R349	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R350	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R351	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R352	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R353	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R354	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R355	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R356	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R357	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R358	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R359	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R360	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R361	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R362	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R363	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R364	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R365	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R366	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R367	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R368	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R369	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R370	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R371	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R372	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R373	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R374	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R375	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R376	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R377	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)

(AT-89A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R378	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R379	1-216-089-91	s	RESISTOR, CHIP 47K
R380	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R381	1-216-089-91	s	RESISTOR, CHIP 47K
R382	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R383	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R384	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R385	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R386	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R387	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R388	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R389	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R390	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R391	1-216-089-91	s	RESISTOR, CHIP 47K
R392	1-216-089-91	s	RESISTOR, CHIP 47K
R393	1-216-089-91	s	RESISTOR, CHIP 47K
R394	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R395	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R396	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R397	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R398	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R399	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R400	1-216-089-91	s	RESISTOR, CHIP 47K
R401	1-216-089-91	s	RESISTOR, CHIP 47K
R402	1-216-089-91	s	RESISTOR, CHIP 47K
R403	1-216-089-91	s	RESISTOR, CHIP 47K
R404	1-216-089-91	s	RESISTOR, CHIP 47K
R405	1-216-089-91	s	RESISTOR, CHIP 47K
R406	1-216-089-91	s	RESISTOR, CHIP 47K
R407	1-216-089-91	s	RESISTOR, CHIP 47K
R408	1-216-089-91	s	RESISTOR, CHIP 47K
R409	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R410	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R411	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
RB100	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB101	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB102	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB103	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB104	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB105	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB106	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB107	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB300	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB301	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB302	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB303	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB304	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB305	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB306	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB307	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB308	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RV1	1-228-476-00	s	RESISTOR. ADJ 50K
RV201	1-237-034-11	s	RESISTOR,ADJ,CERMET 2K
S1	1-762-400-11	s	SWITCH
S3	1-692-271-31	s	SWITCH, SLIDE
S4	1-762-994-11	s	SWITCH, ROTARY
S5	1-572-222-11	s	SWITCH,TOGGLE
S6	1-572-222-11	s	SWITCH,TOGGLE

(AT-89A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
S7	1-570-857-11	s	SWITCH,SLIDE (1-1-2)
THP300 ⚠	1-533-817-21	s	THERMISTOR
X2	1-760-225-11	s	VIBRATOR, CERAMIC
X200	1-760-267-11	s	OSCILLATOR, CRYSTAL (VCO TYPE)
X201	1-760-436-11	s	OSCILLATOR, CRYSTAL (VCO TIPE)
X300	1-579-539-11	s	VIBRATOR,CRYSTAL

CN-1000 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
CN2	1-774-668-11	o	CONNECTOR, BOARD TO BOARD 96P
D1	8-719-023-53	s	DIODE EA30QS04-F
D2	8-719-023-53	s	DIODE EA30QS04-F
D3	8-719-023-53	s	DIODE EA30QS04-F
D4	8-719-023-53	s	DIODE EA30QS04-F
D5	8-719-023-53	s	DIODE EA30QS04-F
D6	8-719-023-53	s	DIODE EA30QS04-F
D7	8-719-023-53	s	DIODE EA30QS04-F
D8	8-719-023-53	s	DIODE EA30QS04-F
D9	8-719-023-53	s	DIODE EA30QS04-F
D10	8-719-023-53	s	DIODE EA30QS04-F
D11	8-719-023-53	s	DIODE EA30QS04-F
D12	8-719-023-53	s	DIODE EA30QS04-F
D13	8-719-023-53	s	DIODE EA30QS04-F
D15	8-719-023-53	s	DIODE EA30QS04-F
D16	8-719-023-53	s	DIODE EA30QS04-F
FB1	1-543-775-11	s	BEAD, FERRITE
FB2	1-543-775-11	s	BEAD, FERRITE
FB3	1-543-775-11	s	BEAD, FERRITE
FB4	1-543-775-11	s	BEAD, FERRITE
FB5	1-543-775-11	s	BEAD, FERRITE
FB6	1-543-775-11	s	BEAD, FERRITE
FB7	1-543-775-11	s	BEAD, FERRITE
FB8	1-543-775-11	s	BEAD, FERRITE
FB9	1-543-775-11	s	BEAD, FERRITE
FB10	1-543-775-11	s	BEAD, FERRITE
FB11	1-543-775-11	s	BEAD, FERRITE
FB12	1-543-775-11	s	BEAD, FERRITE
FB13	1-543-775-11	s	BEAD, FERRITE
FB14	1-543-775-11	s	BEAD, FERRITE
FB15	1-543-775-11	s	BEAD, FERRITE
FB16	1-543-775-11	s	BEAD, FERRITE
FB17	1-543-775-11	s	BEAD, FERRITE
FB18	1-543-775-11	s	BEAD, FERRITE
FB19	1-543-775-11	s	BEAD, FERRITE
FB20	1-543-775-11	s	BEAD, FERRITE
FB21	1-543-775-11	s	BEAD, FERRITE
FB22	1-543-775-11	s	BEAD, FERRITE
FB23	1-543-775-11	s	BEAD, FERRITE
FB24	1-543-775-11	s	BEAD, FERRITE
FB25	1-543-775-11	s	BEAD, FERRITE
FB26	1-543-775-11	s	BEAD, FERRITE
FB27	1-543-775-11	s	BEAD, FERRITE
FB28	1-543-775-11	s	BEAD, FERRITE
FB29	1-543-775-11	s	BEAD, FERRITE
FB30	1-543-775-11	s	BEAD, FERRITE
FB31	1-543-775-11	s	BEAD, FERRITE
FB32	1-543-775-11	s	BEAD, FERRITE
FB33	1-543-775-11	s	BEAD, FERRITE
FB34	1-543-775-11	s	BEAD, FERRITE
FB35	1-543-775-11	s	BEAD, FERRITE
FB36	1-543-775-11	s	BEAD, FERRITE
FB37	1-543-775-11	s	BEAD, FERRITE
FB38	1-543-775-11	s	BEAD, FERRITE
FB39	1-543-775-11	s	BEAD, FERRITE
FB40	1-543-775-11	s	BEAD, FERRITE
FB41	1-543-775-11	s	BEAD, FERRITE
FB42	1-543-775-11	s	BEAD, FERRITE

(CN-1000 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
FB43	1-543-775-11	s	BEAD, FERRITE
FB44	1-543-775-11	s	BEAD, FERRITE
FB45	1-543-775-11	s	BEAD, FERRITE
FB46	1-543-775-11	s	BEAD, FERRITE
FB47	1-543-775-11	s	BEAD, FERRITE
FB48	1-543-775-11	s	BEAD, FERRITE
FB49	1-543-775-11	s	BEAD, FERRITE
FB50	1-543-775-11	s	BEAD, FERRITE
FB51	1-543-775-11	s	BEAD, FERRITE
FB52	1-543-775-11	s	BEAD, FERRITE
FB53	1-543-775-11	s	BEAD, FERRITE
FB54	1-543-775-11	s	BEAD, FERRITE
FB55	1-543-775-11	s	BEAD, FERRITE
FB56	1-543-775-11	s	BEAD, FERRITE
FB57	1-543-775-11	s	BEAD, FERRITE
FB58	1-543-775-11	s	BEAD, FERRITE
FB59	1-543-775-11	s	BEAD, FERRITE
FB60	1-543-775-11	s	BEAD, FERRITE
FB61	1-543-775-11	s	BEAD, FERRITE
FB62	1-543-775-11	s	BEAD, FERRITE
FB63	1-543-775-11	s	BEAD, FERRITE
FB64	1-543-775-11	s	BEAD, FERRITE
FL1	1-239-466-21	s	FILTER, EMI
FL2	1-239-466-21	s	FILTER, EMI
FL3	1-239-466-21	s	FILTER, EMI
FL4	1-239-466-21	s	FILTER, EMI
FL5	1-239-466-21	s	FILTER, EMI
FL6	1-239-466-21	s	FILTER, EMI
FL7	1-239-466-21	s	FILTER, EMI
FL8	1-239-466-21	s	FILTER, EMI
FL9	1-239-466-21	s	FILTER, EMI
FL10	1-239-466-21	s	FILTER, EMI
FL11	1-239-466-21	s	FILTER, EMI
FL12	1-239-466-21	s	FILTER, EMI
FL13	1-239-466-21	s	FILTER, EMI
FL14	1-239-466-21	s	FILTER, EMI
FL15	1-239-466-21	s	FILTER, EMI
FL16	1-239-466-21	s	FILTER, EMI
FL17	1-239-466-21	s	FILTER, EMI
FL18	1-239-466-21	s	FILTER, EMI
FL19	1-239-466-21	s	FILTER, EMI
FL20	1-239-466-21	s	FILTER, EMI
FL21	1-239-466-21	s	FILTER, EMI
FL22	1-239-466-21	s	FILTER, EMI
FL23	1-239-466-21	s	FILTER, EMI
FL24	1-239-466-21	s	FILTER, EMI
FL25	1-239-466-21	s	FILTER, EMI
FL26	1-239-466-21	s	FILTER, EMI
FL27	1-239-466-21	s	FILTER, EMI
FL28	1-239-466-21	s	FILTER, EMI
FL29	1-239-466-21	s	FILTER, EMI
FL30	1-239-466-21	s	FILTER, EMI
FL31	1-239-466-21	s	FILTER, EMI
FL32	1-239-466-21	s	FILTER, EMI

CN-1001 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8324-836-A	o	MOUNTED CIRCUIT BOARD, CN-1001
6pcs	3-711-228-01	o	STANDOFF,D SUB CONN
CN15	1-580-544-11	s	PIN, CONNECTOR (PC BOARD) 30P
CN16	1-563-890-21	s	SOCKET,D-SUB CONNECTOR (9P)
CN17	1-563-890-21	s	SOCKET,D-SUB CONNECTOR (9P)
CN18	1-563-890-21	s	SOCKET,D-SUB CONNECTOR (9P)
CN19	1-580-535-11	o	PIN, CONNECTOR (PC BOARD) 12P
CN20	1-562-382-31	s	CONNECTOR,BNC
CN21	1-562-382-31	s	CONNECTOR,BNC
CN22	1-562-382-31	s	CONNECTOR,BNC
CN23	1-562-382-31	s	CONNECTOR,BNC
FB65	1-543-775-11	s	BEAD, FERRITE
FB66	1-543-775-11	s	BEAD, FERRITE
FB67	1-543-775-11	s	BEAD, FERRITE
FB68	1-543-775-11	s	BEAD, FERRITE
FB69	1-543-775-11	s	BEAD, FERRITE
FB70	1-543-775-11	s	BEAD, FERRITE
FB71	1-543-775-11	s	BEAD, FERRITE
FB72	1-543-775-11	s	BEAD, FERRITE
FB73	1-543-775-11	s	BEAD, FERRITE
FB74	1-543-775-11	s	BEAD, FERRITE
FB75	1-543-775-11	s	BEAD, FERRITE
FB76	1-543-775-11	s	BEAD, FERRITE
FB77	1-543-775-11	s	BEAD, FERRITE
FB78	1-543-775-11	s	BEAD, FERRITE
FB79	1-543-775-11	s	BEAD, FERRITE
FB80	1-543-775-11	s	BEAD, FERRITE
FB81	1-543-775-11	s	BEAD, FERRITE
FB82	1-543-775-11	s	BEAD, FERRITE
FB83	1-543-775-11	s	BEAD, FERRITE
FB84	1-543-775-11	s	BEAD, FERRITE
FB85	1-543-775-11	s	BEAD, FERRITE
FB86	1-543-775-11	s	BEAD, FERRITE
FB87	1-543-775-11	s	BEAD, FERRITE
FB88	1-543-775-11	s	BEAD, FERRITE

CN-1002 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8314-146-A	o	MOUNTED CIRCUIT BOARD, CN-1002
C1	⚠ 1-113-920-11	s	CAPACITOR,CERAMIC 2200PF/250V
C2	⚠ 1-113-920-11	s	CAPACITOR,CERAMIC 2200PF/250V
C3	⚠ 1-113-920-11	s	CAPACITOR,CERAMIC 2200PF/250V
C4	⚠ 1-113-920-11	s	CAPACITOR,CERAMIC 2200PF/250V
C5	1-126-767-11	s	CAPACITOR,ELECT 1000MF/16V
CN30	1-580-837-11	o	PIN,CONNECTOR (PC BOARD) 3P
CN31	1-766-175-11	o	PIN, CONNECTOR (PC BOARD) 5P
CN32	1-580-837-11	o	PIN,CONNECTOR (PC BOARD) 3P
CN33	1-580-837-11	o	PIN,CONNECTOR (PC BOARD) 3P
CN34	1-580-837-11	o	PIN,CONNECTOR (PC BOARD) 3P
CN35	1-764-101-11	s	PIN, CONNECTOR (PC BOARD) 2P
CN36	1-764-101-11	s	PIN, CONNECTOR (PC BOARD) 2P
CN37	1-580-838-11	o	PIN,CONNECTOR (PC BOARD) 4P
CN38	1-564-505-11	o	PLUG,CONNECTOR (2P)
CN39	1-568-961-11	s	PIN,CONNECTOR 3P
CN40	1-506-642-11	o	CONNECTOR,PS 12P
R1	1-247-823-31	s	RESISTOR, CARBON (SMALL) 470
R2	⚠ 1-215-912-11	s	RESISTOR,METAL FILM 150/3W
R3	⚠ 1-215-912-11	s	RESISTOR,METAL FILM 150/3W
R4	⚠ 1-214-937-00	s	RESISTOR,METAL FILM 1M 1/2W
T1	⚠ 1-421-944-31	s	TRANSFORMER,LINE FILTER

CN-999 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
CN1	1-566-098-11	o	PIN,BOARD TO BOARD 14P
CN2	1-566-098-11	o	PIN,BOARD TO BOARD 14P
CN11	1-766-696-11	o	CONNECTOR, ROUND TYPE 8P
CN12	1-766-696-11	o	CONNECTOR, ROUND TYPE 8P
CN13	1-766-696-11	o	CONNECTOR, ROUND TYPE 8P
CN14	1-766-696-11	o	CONNECTOR, ROUND TYPE 8P

IF-777 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8324-788-A	o	MOUNTED CIRCUIT BOARD, IF-777
1pc	3-681-020-01	o	PC SHIELD PLATE
1pc	3-681-070-01	o	PC BOARD PANEL IF
2pcs	3-681-042-01	o	LEVER, PC BOARD(1)
2pcs	3-681-045-01	o	LEVER, PC BOARD(2)
4pcs	7-626-320-11	s	SPRING PIN,3X8 (STEEL)
9pcs	7-682-947-01	s	SCREW +PSW 3X6
6pcs	1-562-579-21	s	RECEPTACLE,CONNECTOR 2P
C3	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C4	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C5	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C6	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C7	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C8	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C9	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C10	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C11	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C12	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C13	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C14	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C15	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C16	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C103	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C104	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C105	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C106	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C107	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C108	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C109	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C110	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C111	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C112	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C113	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C114	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C115	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C116	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C203	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C204	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C205	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C206	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C207	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C208	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C209	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C210	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C211	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C212	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C213	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C214	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C215	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C216	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C303	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C304	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C305	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C306	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C307	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C308	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C309	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C310	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V

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Ref. No. or Q'ty	Part No.	SP	Description
C311	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C312	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C313	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C314	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C315	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C316	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C403	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C404	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C405	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C406	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C407	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C408	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C409	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C410	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C411	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C412	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C413	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C414	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C415	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C416	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C503	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C504	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C505	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C506	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C507	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C508	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C509	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C510	1-115-339-11	s	CAPACITOR CERAMIC 0.1MF/50V
C511	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C512	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C513	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C514	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C515	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C516	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C603	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C604	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C605	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C606	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C607	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C608	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C609	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C703	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C704	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C705	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C706	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C707	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C708	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C709	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C801	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C802	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C803	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C804	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C805	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C806	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C807	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C808	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C809	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C810	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C811	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V

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Ref. No. or Q'ty	Part No.	SP	Description	
C812	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C813	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)	
C814	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V	
C815	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C816	1-163-231-11	s	CAPACITOR,CHIP CERAMIC15PF/50V	
C817	1-163-231-11	s	CAPACITOR,CHIP CERAMIC15PF/50V	
C818	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C819	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)	
C1001	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C1002	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C1003	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C1004	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C1005	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)	
C1006	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C1007	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C1008	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C1009	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C1010	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C1011	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C1012	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C1013	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C1014	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C1015	1-128-396-11	s	CAPACITOR,ELECT 470MF/10V CHIP	
C1016	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)	
C1017	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V	
C1018	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)	
CN1001	1-774-668-11	o	CONNECTOR, BOARD TO BOARD 96P	
CN1003	1-774-668-11	o	CONNECTOR, BOARD TO BOARD 96P	
COR805	1-564-948-21	o	PIN,CONNECTOR 3P	
D1	8-719-067-38	s	DIODE SFPB-74VL	
D2	8-719-210-33	s	DIODE EC10DS2	(RECTI)
D3	8-719-801-78	s	DIODE 1SS184	
D4	8-719-974-41	s	LED HLMP-6500-010	
D101	8-719-067-38	s	DIODE SFPB-74VL	
D102	8-719-210-33	s	DIODE EC10DS2	(RECTI)
D201	8-719-067-38	s	DIODE SFPB-74VL	
D202	8-719-210-33	s	DIODE EC10DS2	(RECTI)
D203	8-719-801-78	s	DIODE 1SS184	
D301	8-719-067-38	s	DIODE SFPB-74VL	
D302	8-719-210-33	s	DIODE EC10DS2	(RECTI)
D401	8-719-067-38	s	DIODE SFPB-74VL	
D402	8-719-210-33	s	DIODE EC10DS2	(RECTI)
D403	8-719-801-78	s	DIODE 1SS184	
D501	8-719-067-38	s	DIODE SFPB-74VL	
D502	8-719-210-33	s	DIODE EC10DS2	(RECTI)
D801	8-719-974-41	s	LED HLMP-6500-010	
IC1	8-759-092-81	s	IC SN75158PS	
IC2	8-759-011-65	s	IC MC74HC4053F	
IC3	8-759-011-65	s	IC MC74HC4053F	
IC4	8-759-231-53	s	IC TA7805S	
IC5	8-759-594-17	o	IC CXD9093R	
IC6	8-759-447-94	s	IC NJU7201U32	
IC101	8-759-092-81	s	IC SN75158PS	
IC102	8-759-011-65	s	IC MC74HC4053F	
IC103	8-759-011-65	s	IC MC74HC4053F	
IC104	8-759-231-53	s	IC TA7805S	

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IC105	8-759-594-17	o	IC CXD9093R
IC106	8-759-447-94	s	IC NJU7201U32
IC201	8-759-092-81	s	IC SN75158PS
IC202	8-759-011-65	s	IC MC74HC4053F
IC203	8-759-011-65	s	IC MC74HC4053F
IC204	8-759-231-53	s	IC TA7805S
IC205	8-759-594-17	o	IC CXD9093R
IC206	8-759-447-94	s	IC NJU7201U32
IC301	8-759-092-81	s	IC SN75158PS
IC302	8-759-011-65	s	IC MC74HC4053F
IC303	8-759-011-65	s	IC MC74HC4053F
IC304	8-759-231-53	s	IC TA7805S
IC305	8-759-594-17	o	IC CXD9093R
IC306	8-759-447-94	s	IC NJU7201U32
IC401	8-759-092-81	s	IC SN75158PS
IC402	8-759-011-65	s	IC MC74HC4053F
IC403	8-759-011-65	s	IC MC74HC4053F
IC404	8-759-231-53	s	IC TA7805S
IC405	8-759-594-17	o	IC CXD9093R
IC406	8-759-447-94	s	IC NJU7201U32
IC501	8-759-092-81	s	IC SN75158PS
IC502	8-759-011-65	s	IC MC74HC4053F
IC503	8-759-011-65	s	IC MC74HC4053F
IC504	8-759-231-53	s	IC TA7805S
IC505	8-759-594-17	o	IC CXD9093R
IC506	8-759-447-94	s	IC NJU7201U32
IC601	8-759-092-81	s	IC SN75158PS
IC602	8-759-594-17	o	IC CXD9093R
IC606	8-759-447-94	s	IC NJU7201U32
IC701	8-759-092-81	s	IC SN75158PS
IC702	8-759-594-17	o	IC CXD9093R
IC706	8-759-447-94	s	IC NJU7201U32
IC801	8-759-054-56	s	IC SN75179BPS
IC802	8-759-521-07	s	IC MAX238CWG
IC803	8-759-521-07	s	IC MAX238CWG
IC804	8-759-594-17	o	IC CXD9093R
IC805	8-759-447-94	s	IC NJU7201U32
IC806	8-759-269-92	s	IC SN74HCU04ANS (E20)
IC1001	8-759-148-14	s	IC UPD71055GB-3B4
IC1002	8-759-148-14	s	IC UPD71055GB-3B4
IC1003	8-759-148-14	s	IC UPD71055GB-3B4
IC1004	8-759-148-14	s	IC UPD71055GB-3B4
IC1005	8-759-926-11	s	IC SN74HC138ANS
IC1007	8-759-926-11	s	IC SN74HC138ANS
IC1008	8-759-926-11	s	IC SN74HC138ANS
IC1009	8-759-926-77	s	IC SN74HC541ANS
IC1010	8-759-926-77	s	IC SN74HC541ANS
IC1011	8-759-035-87	s	IC SC7S00F
IC1012	8-759-926-49	s	IC SN74HC245ANS
L1	1-412-032-11	s	INDUCTOR CHIP 100UH (3225)
L2	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L101	1-412-032-11	s	INDUCTOR CHIP 100UH (3225)
L102	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L201	1-412-032-11	s	INDUCTOR CHIP 100UH (3225)
L202	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L301	1-412-032-11	s	INDUCTOR CHIP 100UH (3225)
L302	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L401	1-412-032-11	s	INDUCTOR CHIP 100UH (3225)
L402	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)

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L501	1-412-032-11	s	INDUCTOR CHIP 100UH (3225)
L502	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L601	1-412-032-11	s	INDUCTOR CHIP 100UH (3225)
L603	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L701	1-412-032-11	s	INDUCTOR CHIP 100UH (3225)
L703	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L801	1-412-032-11	s	INDUCTOR CHIP 100UH (3225)
L803	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L804	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L1001	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
L1002	1-414-529-21	s	INDUCTOR (POWER)
L1003	1-412-006-31	s	CHIP INDUCTOR 10UH (2012)
L1004	1-412-006-31	s	CHIP INDUCTOR 10UH (2012)
PH1	8-749-014-35	s	IC HCPL-0630-500
PH2	8-749-014-35	s	IC HCPL-0630-500
PH101	8-749-014-35	s	IC HCPL-0630-500
PH102	8-749-014-35	s	IC HCPL-0630-500
PH201	8-749-014-35	s	IC HCPL-0630-500
PH202	8-749-014-35	s	IC HCPL-0630-500
PH301	8-749-014-35	s	IC HCPL-0630-500
PH302	8-749-014-35	s	IC HCPL-0630-500
PH401	8-749-014-35	s	IC HCPL-0630-500
PH402	8-749-014-35	s	IC HCPL-0630-500
PH501	8-749-014-35	s	IC HCPL-0630-500
PH502	8-749-014-35	s	IC HCPL-0630-500
PH601	8-749-014-35	s	IC HCPL-0630-500
PH602	8-749-014-35	s	IC HCPL-0630-500
PH701	8-749-014-35	s	IC HCPL-0630-500
PH702	8-749-014-35	s	IC HCPL-0630-500
R1	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R2	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R3	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R4	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R5	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R6	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R7	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R8	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R9	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R10	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R11	1-216-089-91	s	RESISTOR, CHIP 47K
R12	1-216-089-91	s	RESISTOR, CHIP 47K
R13	1-216-097-91	s	RESISTOR,CHIP 100K 1/10W(2012)
R14	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R15	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R16	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R17	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R18	1-216-097-91	s	RESISTOR,CHIP 100K 1/10W(2012)
R19	1-216-089-91	s	RESISTOR, CHIP 47K
R20	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R21	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R22	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R23	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R24	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R25	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R101	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R102	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R103	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R104	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)

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R105	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R106	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R107	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R108	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R109	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R110	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R111	1-216-089-91	s	RESISTOR, CHIP 47K
R112	1-216-089-91	s	RESISTOR, CHIP 47K
R113	1-216-097-91	s	RESISTOR,CHIP 100K 1/10W(2012)
R114	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R115	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R116	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R117	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R118	1-216-097-91	s	RESISTOR,CHIP 100K 1/10W(2012)
R119	1-216-089-91	s	RESISTOR, CHIP 47K
R120	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R121	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R122	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R123	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R124	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R125	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R201	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R202	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R203	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R204	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R205	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R206	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R207	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R208	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R209	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R210	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R211	1-216-089-91	s	RESISTOR, CHIP 47K
R212	1-216-089-91	s	RESISTOR, CHIP 47K
R213	1-216-097-91	s	RESISTOR,CHIP 100K 1/10W(2012)
R214	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R215	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R216	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R217	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R218	1-216-097-91	s	RESISTOR,CHIP 100K 1/10W(2012)
R219	1-216-089-91	s	RESISTOR, CHIP 47K
R220	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R221	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R222	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R223	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R224	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R225	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R301	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R302	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R303	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R304	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R305	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R306	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R307	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R308	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R309	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R310	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R311	1-216-089-91	s	RESISTOR, CHIP 47K
R312	1-216-089-91	s	RESISTOR, CHIP 47K
R313	1-216-097-91	s	RESISTOR,CHIP 100K 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R314	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R315	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R316	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R317	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R318	1-216-097-91	s	RESISTOR,CHIP 100K 1/10W(2012)
R319	1-216-089-91	s	RESISTOR, CHIP 47K
R320	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R321	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R322	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R323	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R324	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R325	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R401	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R402	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R403	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R404	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R405	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R406	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R407	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R408	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R409	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R410	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R411	1-216-089-91	s	RESISTOR, CHIP 47K
R412	1-216-089-91	s	RESISTOR, CHIP 47K
R413	1-216-097-91	s	RESISTOR,CHIP 100K 1/10W(2012)
R414	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R415	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R416	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R417	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R418	1-216-097-91	s	RESISTOR,CHIP 100K 1/10W(2012)
R419	1-216-089-91	s	RESISTOR, CHIP 47K
R420	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R421	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R422	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R423	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R424	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R425	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R501	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R502	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R503	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R504	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R505	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R506	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R507	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R508	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R509	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R510	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R511	1-216-089-91	s	RESISTOR, CHIP 47K
R512	1-216-089-91	s	RESISTOR, CHIP 47K
R513	1-216-097-91	s	RESISTOR,CHIP 100K 1/10W(2012)
R514	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R515	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R516	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R517	1-216-041-00	s	RESISTOR, CHIP 470 1/10W(2012)
R518	1-216-097-91	s	RESISTOR,CHIP 100K 1/10W(2012)
R519	1-216-089-91	s	RESISTOR, CHIP 47K
R520	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R521	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)
R522	1-218-634-11	s	RESISTOR CHIP 470/1W (6332)

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Ref. No. or Q'ty	Part No.	SP	Description
R523	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R524	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R525	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R601	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R602	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R603	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R604	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R605	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R606	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R607	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R608	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R609	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R610	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R611	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R612	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R613	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R701	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R702	1-216-029-00	s	RESISTOR,CHIP 150 1/10W(2012)
R703	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R704	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R705	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R706	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R707	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R708	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R709	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R710	1-216-069-00	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R711	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R712	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R713	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R801	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R802	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R803	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R804	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R805	1-216-045-00	s	RESISTOR,CHIP 680 1/10W(2012)
R806	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R807	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R808	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R809	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R810	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R811	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R812	1-216-121-91	s	RESISTOR CHIP 1M 1/10W(2125)
R813	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R814	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R815	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R816	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R817	1-216-001-00	s	RESISTOR, CHIP 10 1/10W(2012)
R818	1-216-097-91	s	RESISTOR,CHIP 100K 1/10W(2012)
R819	1-216-097-91	s	RESISTOR,CHIP 100K 1/10W(2012)
R1001	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R1002	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R1003	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R1004	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1005	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1006	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1007	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1008	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1009	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1010	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1011	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)

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Ref. No. or Q'ty	Part No.	SP	Description
R1012	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1013	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1014	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1015	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1016	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1017	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1018	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1019	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1020	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1021	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1022	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1023	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1024	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1025	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1026	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1027	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1028	1-216-025-91	s	RESISTOR,CHIP 100 1/10W(2125)
R1029	1-216-057-00	s	RESISTOR CHIP 2.2K 1/10W(2012)
R1030	1-216-089-91	s	RESISTOR, CHIP 47K
R1031	1-216-089-91	s	RESISTOR, CHIP 47K
R1032	1-216-089-91	s	RESISTOR, CHIP 47K
R1033	1-216-089-91	s	RESISTOR, CHIP 47K
R1034	1-216-089-91	s	RESISTOR, CHIP 47K
R1035	1-216-089-91	s	RESISTOR, CHIP 47K
R1036	1-216-089-91	s	RESISTOR, CHIP 47K
R1037	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R1038	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R1039	1-216-073-00	s	RESISTOR,CHIP 10K 1/10W(2012)
R1040	1-216-089-91	s	RESISTOR, CHIP 47K
RB1001	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB1002	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB1003	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB1004	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB1005	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB1006	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB1008	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB1009	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB1010	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB1011	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB1012	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB1013	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB1014	1-239-303-11	s	RESISTOR ARRAY,CHIP 1K
RB1015	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RB1016	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
S801	1-570-610-11	s	SWITCH,TOGGLE
S802	1-564-948-21	o	PIN,CONNECTOR 3P
S803	1-564-948-21	o	PIN,CONNECTOR 3P
S804	1-564-948-21	o	PIN,CONNECTOR 3P
S805	1-564-948-21	o	PIN,CONNECTOR 3P
S806	1-564-948-21	o	PIN,CONNECTOR 3P
S901	1-692-271-31	s	SWITCH, SLIDE
S902	1-762-994-11	s	SWITCH, ROTARY
S1003	1-692-271-31	s	SWITCH, SLIDE
THP1	⚠ 1-533-817-21	s	THERMISTOR
X1	1-760-435-11	s	VIBRATOR, CRYSTAL

LED-223 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8314-149-A	o	MOUNTED CIRCUIT BOARD, LED-223
CN41	1-564-505-11	o	PLUG,CONNECTOR (2P)
D20	1-809-488-11	s	DIODE LD-101MG

MB-562 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8314-150-A	o	MOUNTED CIRCUIT BOARD, MB-562
2pcs	3-681-056-03	o	BOARD GUIDE
1pc	3-681-069-03	o	BOARD GUIDE 2
CN12	1-580-544-11	s	PIN, CONNECTOR (PC BOARD) 30P
CN13	1-580-535-11	o	PIN, CONNECTOR (PC BOARD) 12P
CN14	1-580-535-11	o	PIN, CONNECTOR (PC BOARD) 12P
CN15	1-566-444-11	o	PIN,D-SUB CONNECTOR 50P

FRAME(FOR CNU-700)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	⚠ 1-413-917-12	s	SWITCHING REG. (TDK FAW05-10R)
1pc	⚠ 1-468-496-11	s	SWITCHING REG. (TDK FGW28-3R6)
	(⚠ 1-576-230-11	s	FUSE 2A/125V)
F101	⚠ 1-532-747-11	s	FUSE, GLASS 5A/125V (20MM) (for J,UC)
	⚠ 1-576-231-11	s	FUSE (H.B.C.) (for CE)
HN001	⚠ 1-953-648-11	o	HARNESS, SUB (RCP-POWER1)
(TO CN32/CN-1002 BOARD)			
1pc	⚠ 1-562-211-11	o	HOUSING, CONNECTOR 3P
2pcs	⚠ 1-535-321-11	s	TERMINAL, SOLDERLESS
2pcs	⚠ 1-562-210-11	s	CONTACT, CONNECTOR
(TO CN36/CN-1002 BOARD)			
1pc	⚠ 1-562-352-11	o	HOUSING, CONNECTOR 2P
2pcs	⚠ 1-535-321-11	s	TERMINAL, SOLDERLESS
2pcs	⚠ 1-562-210-11	s	CONTACT, CONNECTOR
HN002	⚠ 1-953-649-12	o	HARNESS, SUB (5V POWER)
(TO CN33/CN-1002 BOARD)			
1pc	⚠ 1-562-211-11	o	HOUSING, CONNECTOR 3P
2pcs	⚠ 1-562-210-11	s	CONTACT, CONNECTOR
(TO CN37/CN-1002 BOARD)			
1pc	⚠ 1-562-285-11	o	HOUSING, CONNECTOR 4P
4pcs	⚠ 1-562-210-11	s	CONTACT, CONNECTOR
HN003	1-953-650-12	o	HARNESS, SUB (LED)
(TO CN38/CN-1002 BOARD)			
1pc	1-580-578-11	s	HOUSING, CONNECTOR 4P
2pcs	1-580-599-11	o	TERMINAL, SOLDERLESS
(TO CN41/LED-223 BOARD)			
1pc	1-580-578-11	s	HOUSING, CONNECTOR 4P
2pcs	1-580-599-11	o	TERMINAL, SOLDERLESS
HN004	1-953-651-12	o	HARNESS (MAIN POWER)
(TO CN40/CN-1002 BOARD)			
CN102	1-563-819-11	s	SOCKET, D-SUB CONNECTOR 50P
1pc	1-563-127-11	o	CONNECTOR, PS 26P
26pcs	1-563-115-11	o	CONNECTOR, PS
HN005	⚠ 1-953-655-11	o	HARNESS (AC SW)
(TO CN31/CN-1002 BOARD)			
S101	⚠ 1-570-117-41	s	SWITCH, SEESAW (AC POWER)
1pc	⚠ 1-533-191-12	s	HOLDER, FUSE
1pc	⚠ 1-562-286-11	o	HOUSING, CONNECTOR 5P
4pcs	⚠ 1-562-210-11	s	CONTACT,CONNECTOR
HN006	⚠ 1-953-654-11	o	HARNESS (AC IN) (including CN101)
(TO CN30/CN-1002 BOARD)			
1pc	⚠ 1-251-148-21	s	INLET, AC(3P)
1pc	1-537-568-11	o	TERMINAL, GROUND
1pc	⚠ 1-562-211-11	o	HOUSING, CONNECTOR 3P
2pcs	⚠ 1-562-210-11	s	CONTACT, CONNECTOR
HN008	---		HARNESS (RS232C)
(TO CN12/MB-562 BOARD)			
1pc	1-580-591-11	o	HOUSING, CONNECTOR 30P
30pcs	1-580-599-11	o	TERMINAL, SOLDERLESS
(TO CN15/CN-1001 BOARD)			
1pc	1-580-591-11	o	HOUSING, CONNECTOR 30P
30pcs	1-580-599-11	o	TERMINAL, SOLDERLESS
HN009	---		HARNESS (VIDEO)
(TO CN13/MB-562 BOARD)			
1pc	1-580-582-11	o	HOUSING, CONNECTOR 12P
6pcs	1-580-599-11	o	TERMINAL, SOLDERLESS
(TO CN19/CN-1001 BOARD)			
1pc	1-580-582-11	o	HOUSING, CONNECTOR 12P
6pcs	1-580-599-11	o	TERMINAL, SOLDERLESS
M101	1-698-131-21	s	MOTER, DC FAN

FRAME(FOR BKP-7930)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	⚠ 1-468-496-11	s	SWITCHING REG. (TDK FGW28-3R6)
(1pc)	⚠ 1-576-230-11	s	FUSE 2A/125V)
HN007	⚠ 1-953-706-11	s	HARNESS, SUB (RCP-POWER2)
(TO CN34/CN-1002 BOARD)			
1pc	⚠ 1-562-211-11	o	HOUSING, CONNECTOR 3P
2pcs	⚠ 1-535-321-11	s	TERMINAL, SOLDERLESS
2pcs	⚠ 1-562-210-11	s	CONTACT, CONNECTOR
(TO CN35/CN-1002 BOARD)			
1pc	⚠ 1-562-352-11	o	HOUSING, CONNECTOR 2P
2pcs	⚠ 1-535-321-11	s	TERMINAL, SOLDERLESS
2pcs	⚠ 1-562-210-11	s	CONTACT, CONNECTOR

SUPPLIED ACCESSORIES (FOR CNU-700)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	⚠ 1-532-747-11	s	FUSE,GLASS 5A/125V (20MM)(for J,UC)
1pc	⚠ 1-551-812-11	s	CORD,POWER (for UC)
1pc	⚠ 1-576-231-11	s	FUSE (H.B.C) (for CE)
1pc	⚠ 1-782-929-11	s	CORD,POWER (BS 3P) (for CE)
1pc	⚠ 1-791-041-11	s	CORD SET, POWER (3P) (for J)
1pc	1-793-461-11	o	PLUG, CONVERSION (3P-2P) (for J)
1pc	2-990-242-01	s	HOLDER (B),PLUG (for UC)
1pc	3-613-640-01	o	HOLDER (C), PLUG (for CE,J)

SUPPLIED ACCESSORIES (FOR BKP-7930)

Ref. No. or Q'ty	Part No.	SP	Description
4pcs	7-682-947-01	s	SCREW +PSW 3X6

Section 4
Semiconductor Pin Assignments

The following describes the semiconductor types used in this unit.
For semiconductors marked with page numbers in the index, refer to the corresponding pages in this section. However, in some cases incompatible types are also listed, therefore, when a part is to be replaced, also refer to the Spare Parts section.
In addition, for semiconductors with ID Nos., refer to the separate CD-ROM titled “Semiconductor Pin Assignments” (Sony Part No. 9-968-546-xx) that allows searching for parts by semiconductor type or ID No.
The semiconductors in the manual or on the CD-ROM are listed by equivalent types. Thus the external view or the index mark indication may differ from the actual type.
Pin assignments and block diagrams are based on the IC manufacturer’s data book.

本機に使用されている半導体型名の一覧を下記に示します。
索引中，ページが記載されている半導体は，本章の該当ページを参照してください。ただし，互換性のない型名を併記している場合がありますので，部品を交換するときは，Spare Partsの章を参照してください。
また，ID番号が記載されている半導体は，別途発行の “Semiconductor Pin Assignments” CD−ROM版 (ソニー部品番号：9−968−546−xx)を参照してください。
半導体型名またはID番号から検索ができます。
マニュアルまたはCD−ROMに掲載されている半導体は，それぞれの機能を等価的に表わしたものです。
外観やインデックスマークの表示方法が実物と異なる場合があります。
ピン配置およびブロック図はICメーカーのデータブックに従いました。

DIODE — **Page or ID No.**

1S2837-T1 ..... DC001-03
1SS123-T1 ..... DC001-01
1SS184 ..... DC001-03
1SS226 ..... DC001-01

EA30QS04-F DC002-04
EA30QS04-TE16F2 ..... DC002-04
EC10DS2 ..... DC007-01
EC10DS2-TE12L5 ..... DC007-01
EC10QS-04 ..... DC007-01
EC10QS04-TE12L5 ..... DC007-01

HSM88AS-TL DC001-01

RD3.6M-B1 ..... DC001-04
RD3.6M-T1B DC001-04
RD4.7M-B DC001-04
RD4.7M-T1B DC001-04

SFPB-74VL DC007-01

LED — **Page or ID No.**

HLMP-6500-010 ..... LR055-01

LD-101MG 4-3

TRANSISTOR — **Page or ID No.**

2SA1162G TC001-01
2SA812-T1M6 ..... TC001-01
2SC1623-L5L6 ..... TC001-02
2SC1623-T1-L5L6 ..... TC001-02

DTA144EKA-T146 ..... TC001-04

OTHERS — **Page or ID No.**

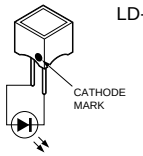
HCPL-0630-500 ..... MA009-01

Index

IC	Page or ID No.
AM29F800BB-70SC	4-3
CXD9093R	4-4
EPM7128STC100-15	EPM7128STC100-7
GAL22V10D-25LP	GAL22V10-25L
HA9P5020-5	EL2020CN
HA9P5020-5/E2	EL2020CN
HN58C257AT-10	HN58C257T
HN58C257AT10	HN58C257T
IDT79R3041-20J	IDT79R3041-16J
KM6164002AJ-15T	4-4
LC324260AJ-60-MPB	UPD424260LE-70
LM1881M	LM1881N
LM7805CT	NJM78M05FA
M27C4002-10F1(F)	M27C4002-12F1
M27C4002-10F1(F8)	M27C4002-12F1
MAX238CWG	MAX238CNG
MAX238CWG-TE2	MAX238CNG
MC14046BF	CD4046BE
MC14046BFEL	CD4046BE
MC34063AM	MC34063M
MC34063AML	MC34063M
MC74HC4053F	MC74HC4053F
NJU7201U32	NJU7201U50
NJU7201U32-TE1	NJU7201U50
SC7S00F	TC7S00F
SC7S02F	TC4S01F
SC7S32F	TC7S32F
SN74HC125ANS	MC74HC125N
SN74HC125ANSR	MC74HC125N
SN74HC138ANS	TC74HC138P
SN74HC138ANSR	TC74HC138P
SN74HC244ANS	TC74HC244P
SN74HC244ANSR	TC74HC244P
SN74HC245ANS	TC74HC245P
SN74HC245ANSR	TC74HC245P
SN74HC32ANS	TC74HC32P
SN74HC32ANSR	TC74HC32P
SN74HC4040ANS	MC74HC4040N
SN74HC4040ANSR	MC74HC4040N
SN74HC541ANS	MC74HC541N
SN74HC541ANSR	MC74HC541N
SN74HC573BNS	TC74HC573F
SN74HC573BNSR	TC74HC573F
SN74HCU04ANS-E20	TC74HC04P
SN74HCU04ANSR	TC74HC04P
SN75158PS	SN75158P
SN75158PSR	SN75158P
SN75179BPS	SN75179BP
SN75179BPS-E05	SN75179BP

IC	Page or ID No.
TA7805S	NJM78M05FA
TC4W53F	TC4W53FU
TC4W53F(TE12R)	TC4W53FU
TC74HC4053AF(EL)	MC74HC4053F
TC74HC4538AF	MC74HC4538N
TC74HC4538AF(EL)	MC74HC4538N
TC7S00F(TE85R)	TC7S00F
TC7S02F(TE85R)	TC4S01F
TC7S32F(TE85R)	TC7S32F
TC7W02F	TC7W02F
TC7W02F(TE12R)	TC7W02F
TC7WU04F(TE12R)	TC7W04F
TC7WU04F-TE12R	TC7W04F
TC7WU04FU(TE12R)	TC7W04F
TL062CPS	RC4558
TL062CPSR	RC4558
TL7705CPS-B	TL7705CP
TL7705CPS-B-E20	TL7705CP
UPD71051GB-3B4	UPD71051G
UPD71055GB-3B4	UPD71055G
YGV606B-F	YGV606-F

LED



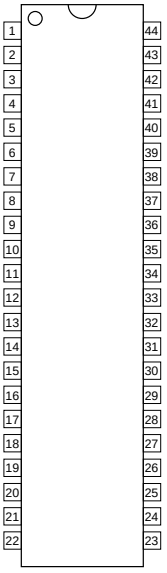
LD-101MG

IC

AM29F800BB-70SC (AMD)

8M (1M × 8/512K × 16)-BIT BOOT SECTOR FLASH MEMORY

—TOP VIEW—



INPUTS

A0 - A18	: ADDRESS
A-1	: ADDRESS (BYTE MODE)
$\overline{BYTE}$	: SELECT 8-BIT OR 16-BIT MODE
$\overline{CE}$	: CHIP ENABLE
$\overline{OE}$	: OUTPUT ENABLE
$\overline{RESET}$	: HARDWARE RESET
$\overline{WE}$	: WRITE ENABLE

OUTPUT

RY/$\overline{BY}$	: READY/$\overline{BUSY}$

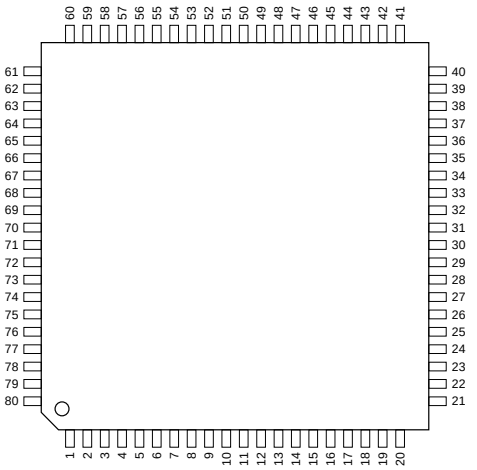
INPUTS/OUTPUTS

DQ0 - DQ14	: DATA
DQ15	: DATA (WORD MODE)

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	O	RY/$\overline{BY}$	12	I	$\overline{CE}$	23	—	V_{CC}	34	I	A16
2	I	A18	13	—	GND	24	I/O	DQ4	35	I	A15
3	I	A17	14	I	$\overline{OE}$	25	I/O	DQ12	36	I	A14
4	I	A7	15	I/O	DQ0	26	I/O	DQ5	37	I	A13
5	I	A6	16	I/O	DQ8	27	I/O	DQ13	38	I	A12
6	I	A5	17	I/O	DQ1	28	I/O	DQ6	39	I	A11
7	I	A4	18	I/O	DQ9	29	I/O	DQ14	40	I	A10
8	I	A3	19	I/O	DQ2	30	I/O	DQ7	41	I	A9
9	I	A2	20	I/O	DQ10	31	I/O	DQ15/A-1	42	I	A8
10	I	A1	21	I/O	DQ3	32	—	GND	43	I	$\overline{WE}$
11	I	A0	22	I/O	DQ11	33	I	$\overline{BYTE}$	44	I	$\overline{RESET}$

CXD9093R (SONY)

SERIAL I/O
—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	—	GND	21	—	VCC	41	—	GND	61	—	VCC
2	I/O	D0	22	O	TOUT0	42	O	BREAKA	62	O	BREAKB
3	I/O	D1	23	O	TOUT1	43	O	CABLEA	63	O	CABLEB
4	I/O	D2	24	O	TOUT2	44	O	PACKETA	64	O	PACKETB
5	I/O	D3	25	O	TOUT3	45	I	TDI	65	O	INTA
6	—	GND	26	I	TEB	46	I	TMS	66	O	INTB
7	I/O	D4	27	I	TIN	47	I	TCK	67	I	TRST
8	I/O	D5	28	O	BTVDA	48	O	BTVDB	68	O	TDO
9	I/O	D6	29	O	TVDA	49	O	TVDB	69	I	RESET
10	I/O	D7	30	O	NTVDA	50	O	NTVDB	70	I	$\overline{\text{RESET}}$
11	—	GND	31	—	GND	51	—	GND	71	—	GND
12	—	VCC	32	—	VCC	52	—	VCC	72	—	VCC
13	I	$\overline{\text{WR}}$	33	I	$\overline{\text{RVDA}}$	53	I	$\overline{\text{RVDB}}$	73	I	$\overline{\text{CSA}}$
14	—	NC	34	I	RVDA	54	I	RVDB	74	I	$\overline{\text{CSB}}$
15	I	$\overline{\text{RD}}$	35	I	$\overline{\text{CTSA}}$	55	I	$\overline{\text{CTSB}}$	75	—	GND
16	I	TEST	36	O	$\overline{\text{RTSA}}$	56	O	$\overline{\text{RTSB}}$	76	I	A0
17	O	$\overline{\text{WAIT}}$	37	O	BRVDA	57	O	BRVDB	77	I	A1
18	—	GND	38	O	TCLKA	58	O	TCLKB	78	I	A2
19	I	CLK	39	O	BCLKA	59	O	BCLKB	79	I	A3
20	—	GND	40	—	VCC	60	—	GND	80	—	VCC

INPUTS

A0 - A3	: ADDRESS BUS
CLK	: MAIN CLOCK
$\overline{\text{CSA}}$, $\overline{\text{CSB}}$	: A/B-CH CS
$\overline{\text{CTSA}}$, $\overline{\text{CTSB}}$	: A/B-CH CTS
$\overline{\text{RD}}$	: READ
RESET, $\overline{\text{RESET}}$	: RESET
RVDA, RVDB	: A/B-CH SERIAL DATA
$\overline{\text{RVDA}}$, $\overline{\text{RVDB}}$	: A/B-CH NEGATIVE SERIAL DATA
TCK, TDI, TMS, TRST	: FOR BOUNDARY SCAN
$\overline{\text{WR}}$	: WRITE

OUTPUTS

BCLKA, BCLKB	: A/B-CH BCLK
BREAKA, BREAKB	: A/B-CH BREAK DETECT
BRVDA, BRVDB	: A/B-CH BI-PHASE DEMODULATION DATA
BTVDA, BTVDB	: A/B-CH BI-PHASE SERIAL DATA
CABLEA, CABLEB	: A/B-CH CABLE DETECT
INTA, INTB	: A/B-CH INTERRUPT
NTVDA, NTVDB	: A/B-CH NORMAL SERIAL DATA
PACKETA, PACKETB	: A/B-CH PACKET DETECT
$\overline{\text{RTSA}}$, $\overline{\text{RTSB}}$	: A/B-CH RTS
TCLKA, TCLKB	: A/B-CH TCLK
TDO	: FOR BOUNDARY SCAN
TVDA, TVDB	: A/B-CH SERIAL DATA
$\overline{\text{WAIT}}$	: WAIT

INPUTS/OUTPUTS

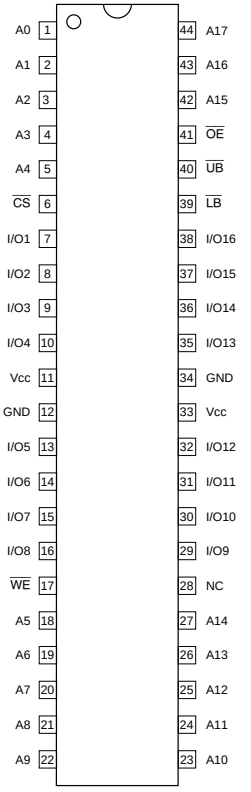
D0 - D7	: DATA BUS

OTHERS

NC	: NO CONNECTION
TEB, TEST, TIN	: TEST
TOUT0 - TOUT3	: TEST

KM6164002AJ-15T (SAMSUNG)

4M (262,144 × 16) -BIT SRAM
—TOP VIEW—



INPUTS

A0 - 17	: ADDRESS
$\overline{\text{WE}}$	: WRITE ENABLE
$\overline{\text{CS}}$	: CHIP SELECT
$\overline{\text{LB}}$	: LOWER-BYTE CONTROL
$\overline{\text{OE}}$	: OUTPUT ENABLE
$\overline{\text{UB}}$	: UPPER-BYTE CONTROL

INPUTS/OUTPUTS

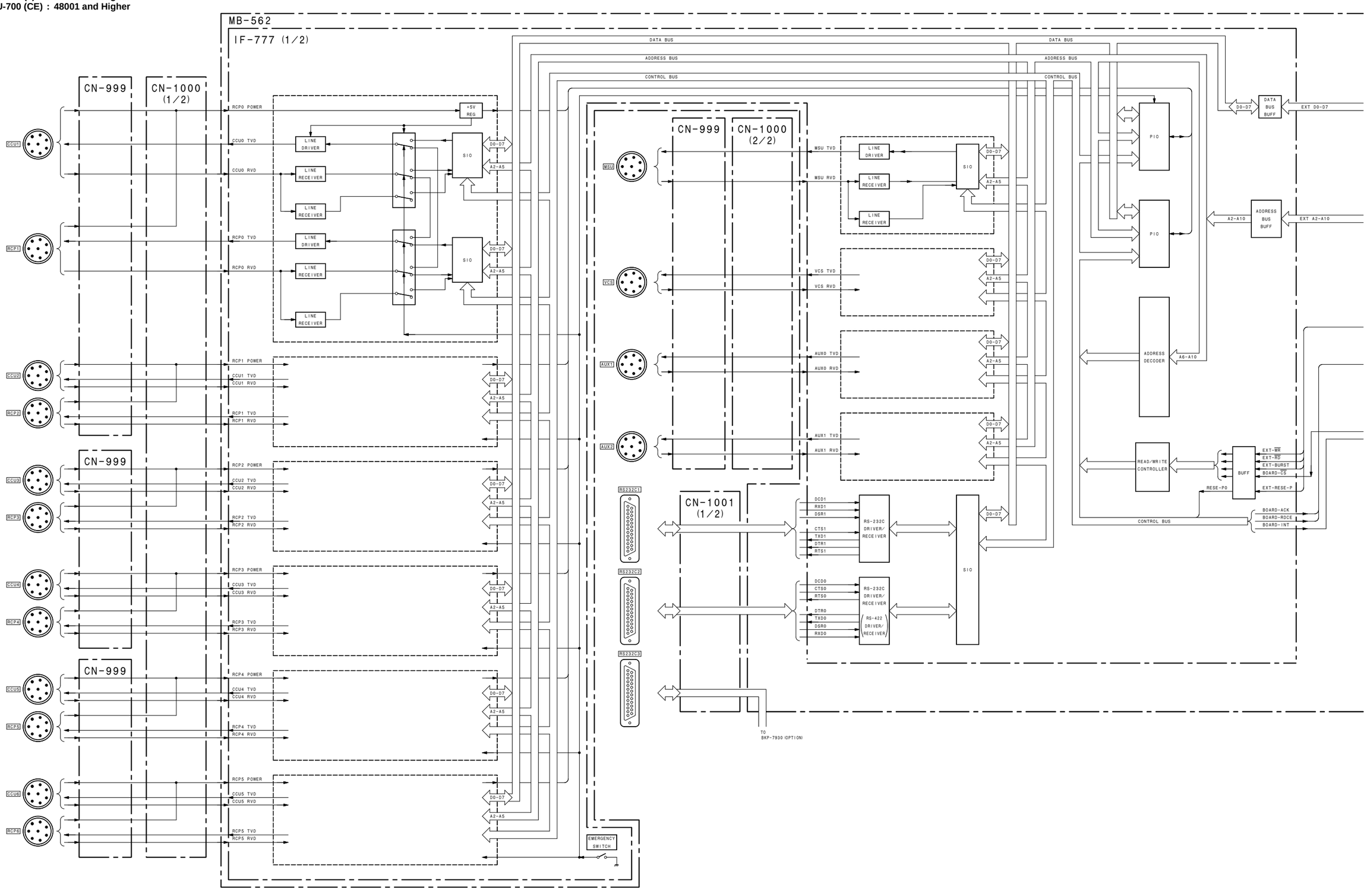
I/O1 - 16	: DATA

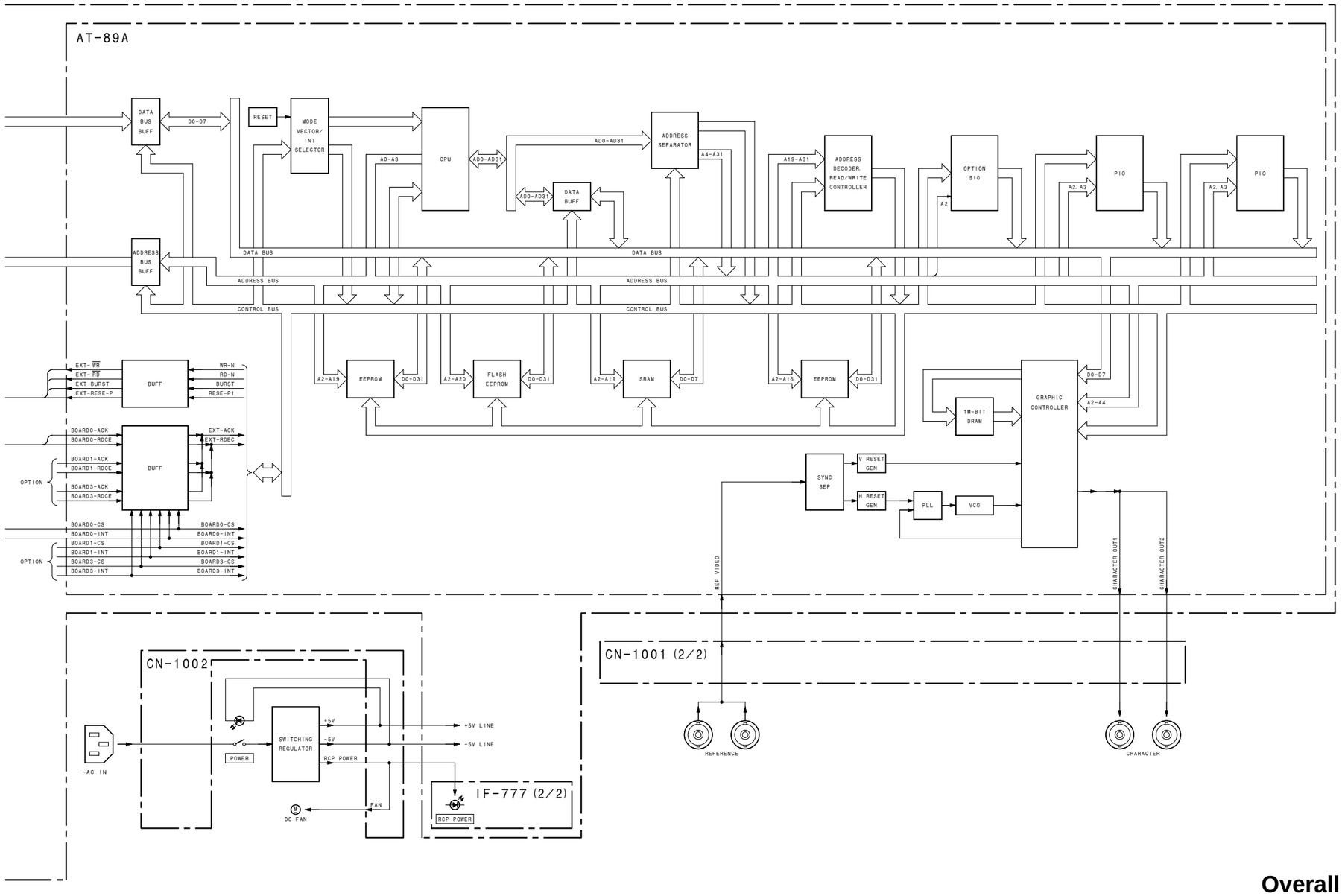
OTHER

NC	: NO CONNECTION

Section 5
Block Diagrams

CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher

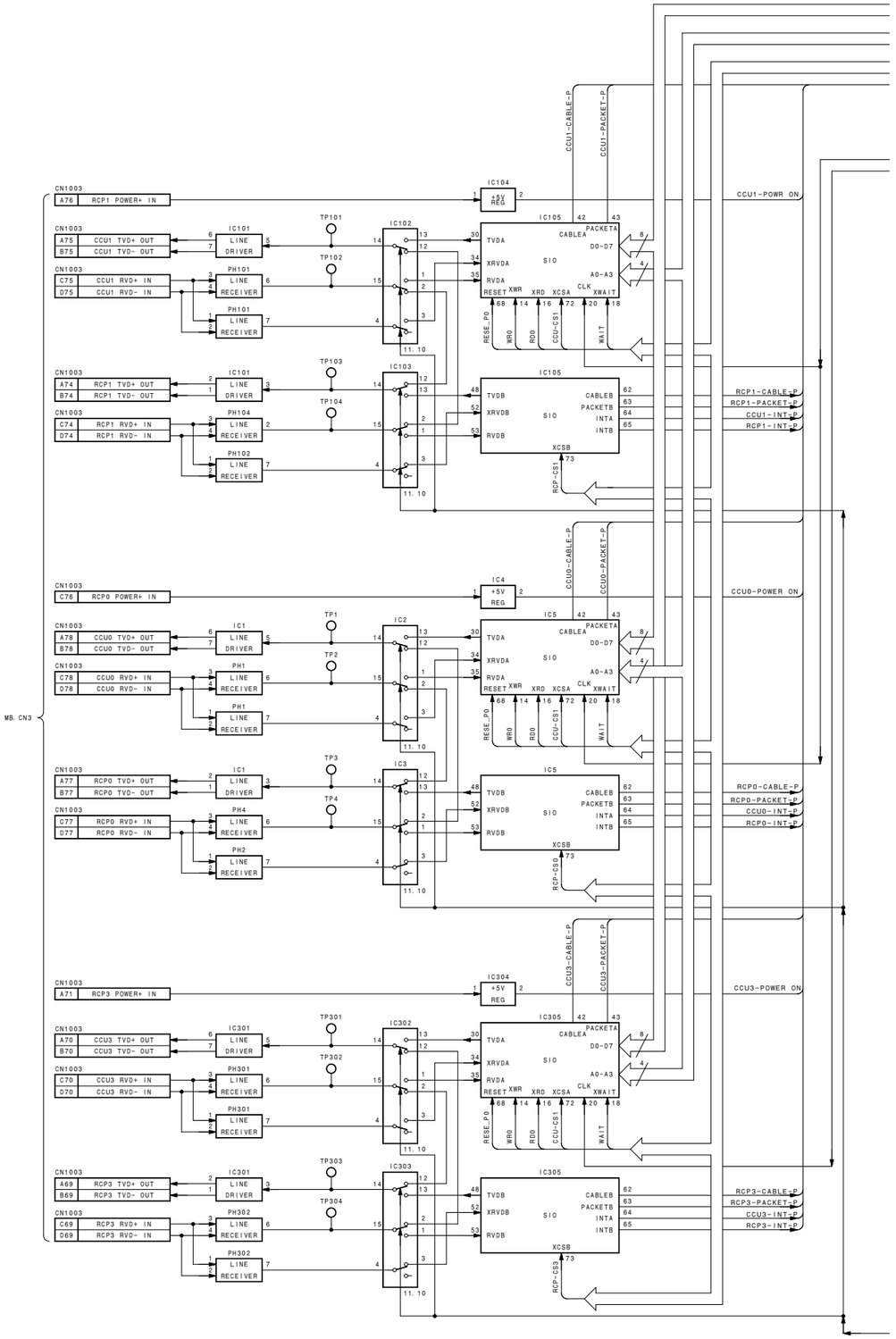



AT-89A
DATA BUS BUFF
D0-D7
RESET
MODE VECTOR/ INT SELECTOR
A0-A3
CPU
AD0-AD31
ADDRESS SEPARATOR
A4-A31
DATA BUFF
A19-A31
ADDRESS DECODER, READ/WRITE CONTROLLER
OPTION SIO
A2
PIO
A2, A3
ADDRESS BUS BUFF
DATA BUS
ADDRESS BUS
CONTROL BUS
EEPROM
FLASH EEPROM
SRAM
A2-A19
A2-A20
A2-A16
D0-D31
D0-D7
BUFF
EXT-WR
EXT-RD
EXT-BURST
EXT-RESE-P
WR-N
RD-N
BURST
RESE-P1
BOARD0-ACK
BOARD0-RDCE
BOARD1-ACK
BOARD1-RDCE
BOARD3-ACK
BOARD3-RDCE
EXT-ACK
EXT-RDEC
OPTION
BOARD0-CS
BOARD0-INT
BOARD1-CS
BOARD1-INT
BOARD3-CS
BOARD3-INT
1M-BIT DRAM
GRAPHIC CONTROLLER
A2-A4
SYNC SEP
V RESET GEN
H RESET GEN
PLL
VCO
REF VIDEO
CHARACTER OUT1
CHARACTER OUT2
CN-1001 (2/2)
REFERENCE
CHARACTER
CN-1002
~AC IN
POWER
SWITCHING REGULATOR
+5V
-5V
RCP POWER
FAN
DC FAN
+5V LINE
-5V LINE
IF-777 (2/2)
RCP POWER

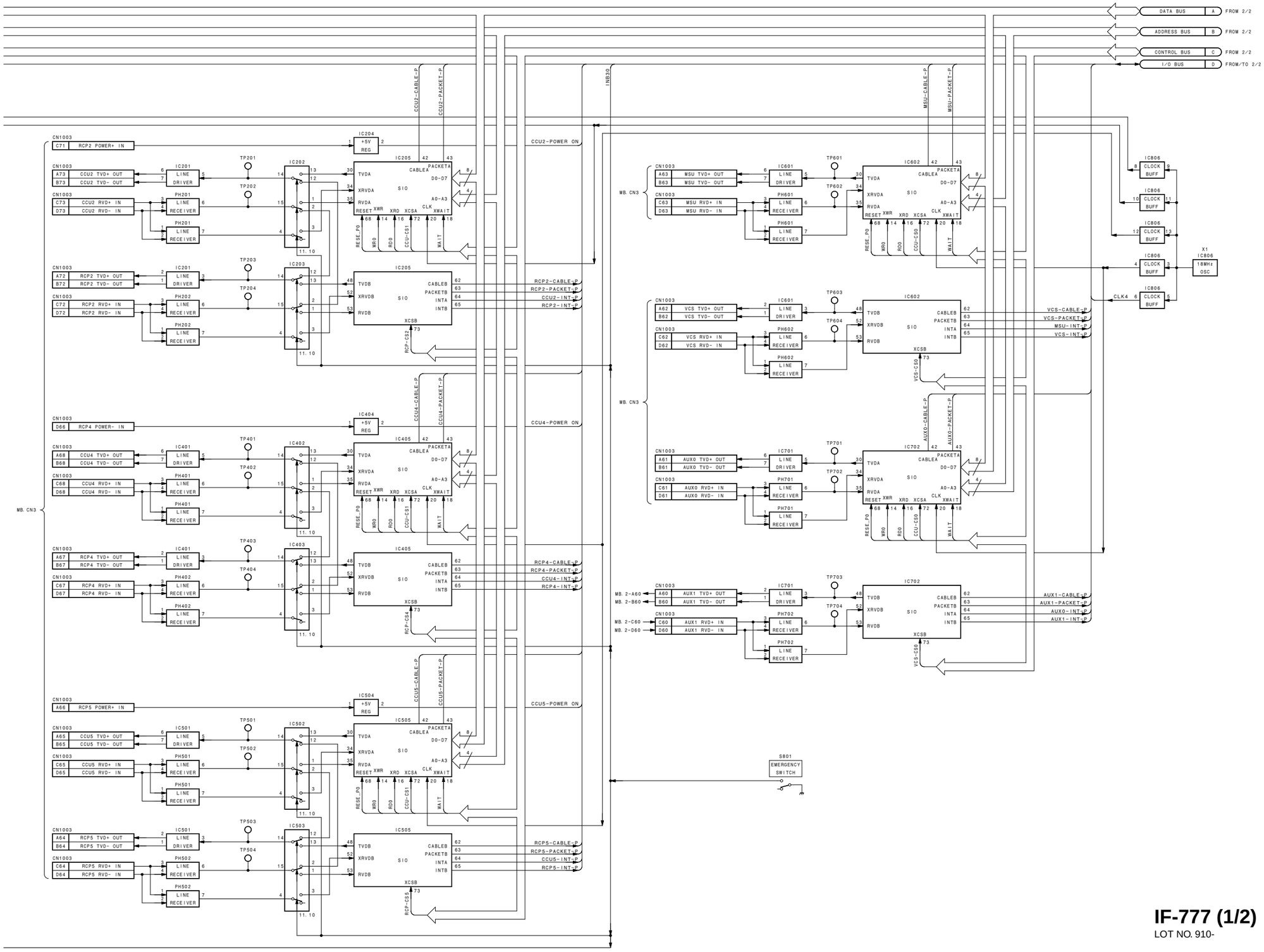
Overall

IF-777 (1/2)

CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher



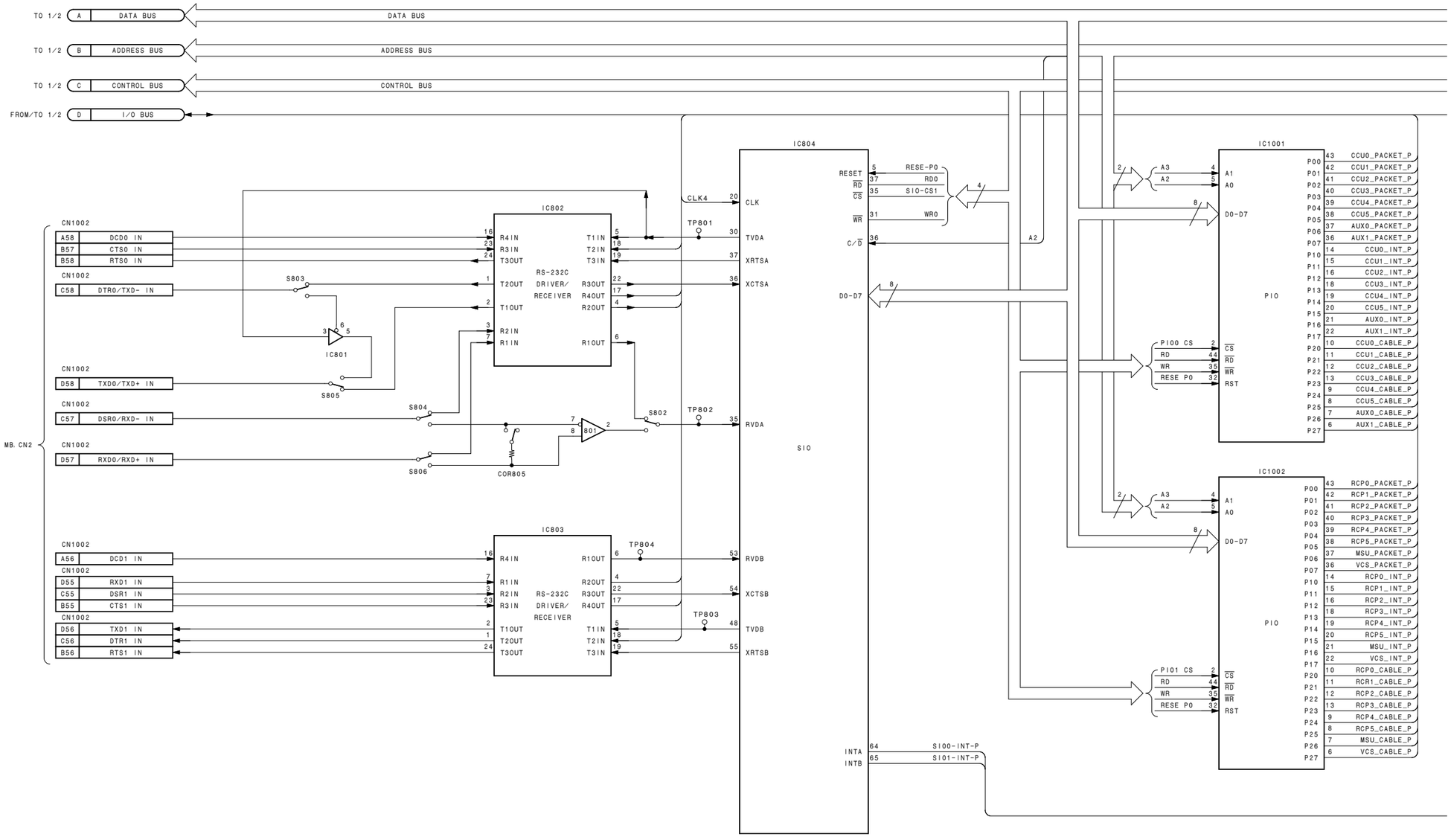
5-4



IF-777 (1/2)
LOT NO. 910-

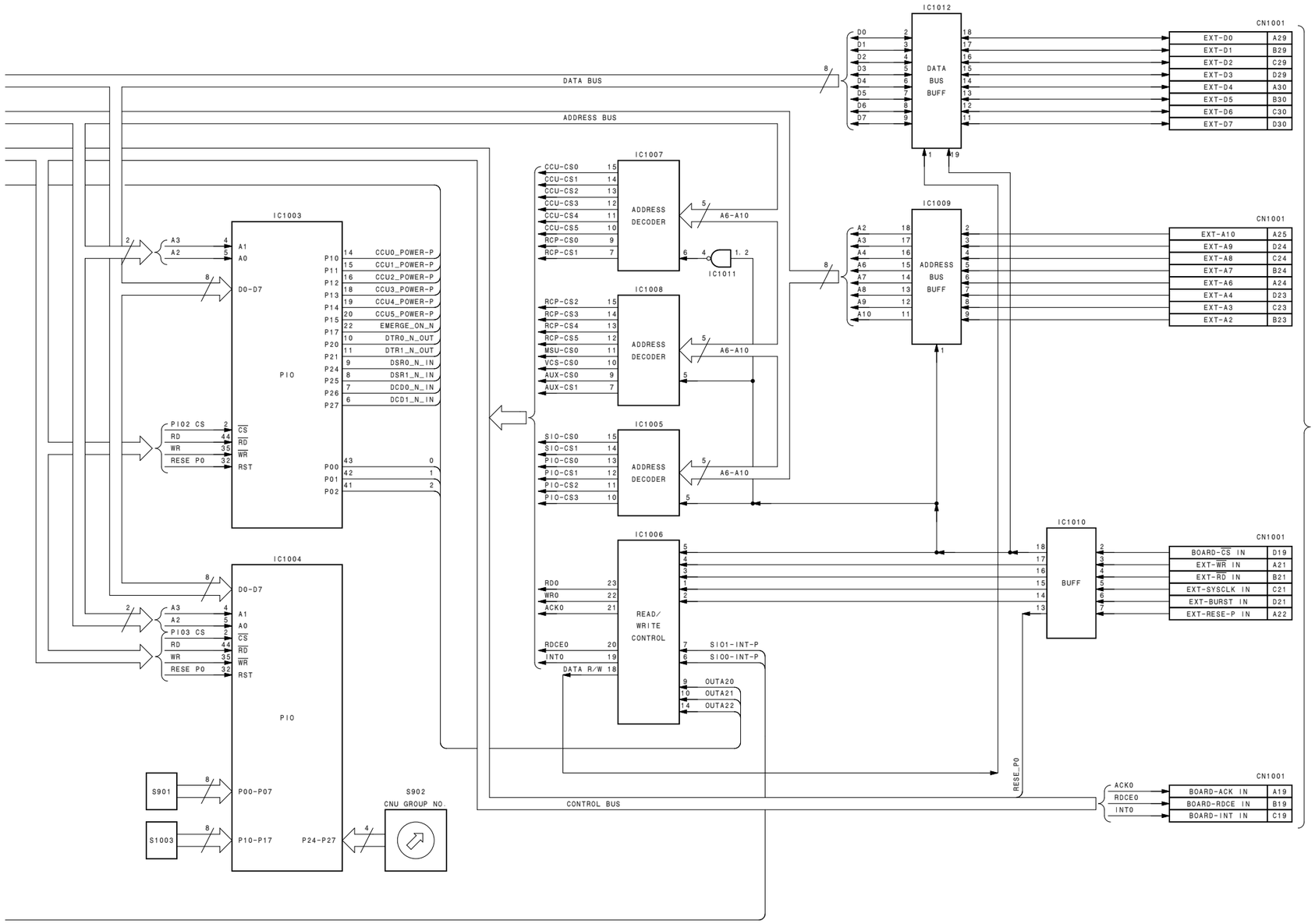
IF-777 (2/2)

CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher



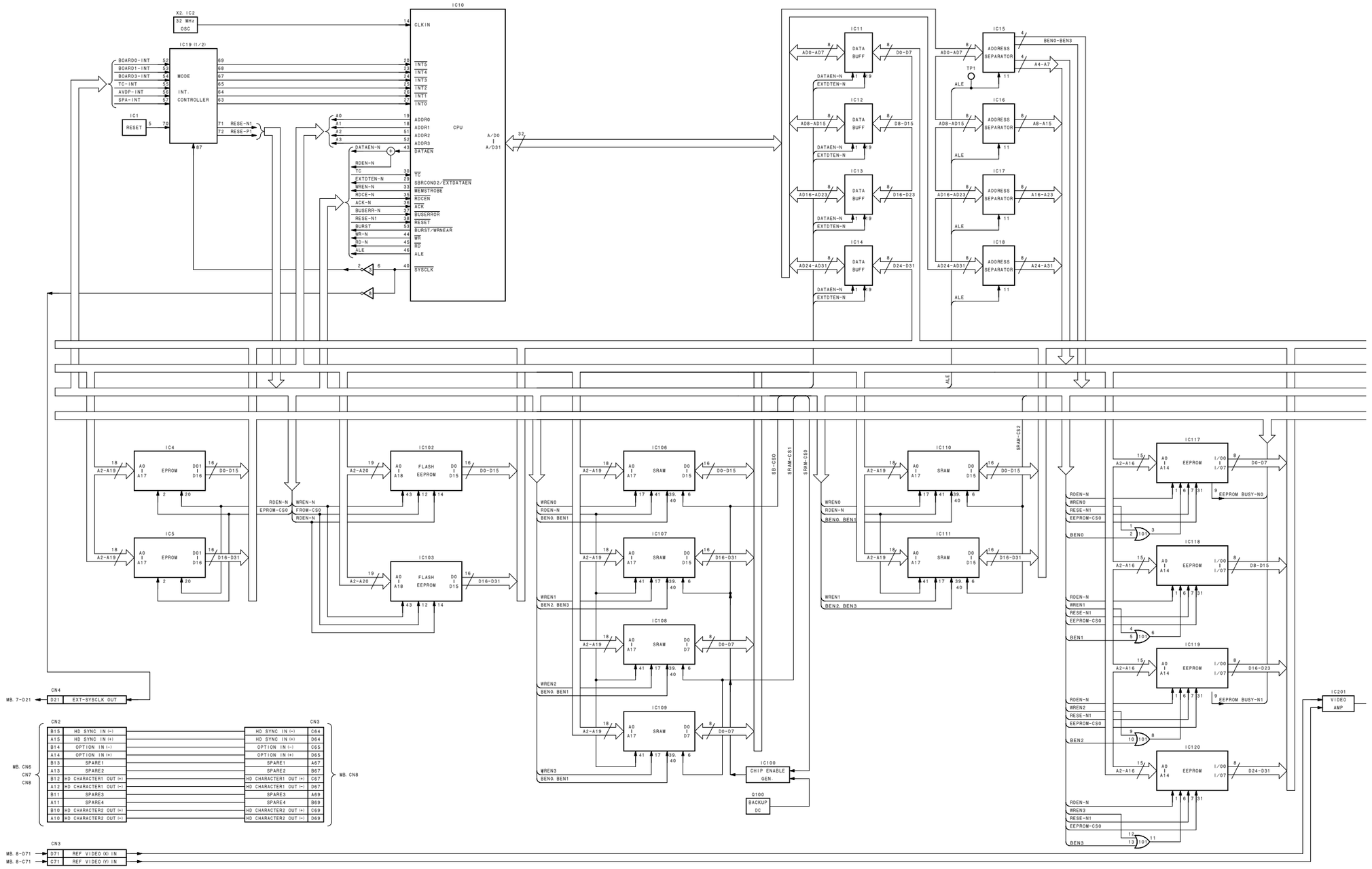
5-6

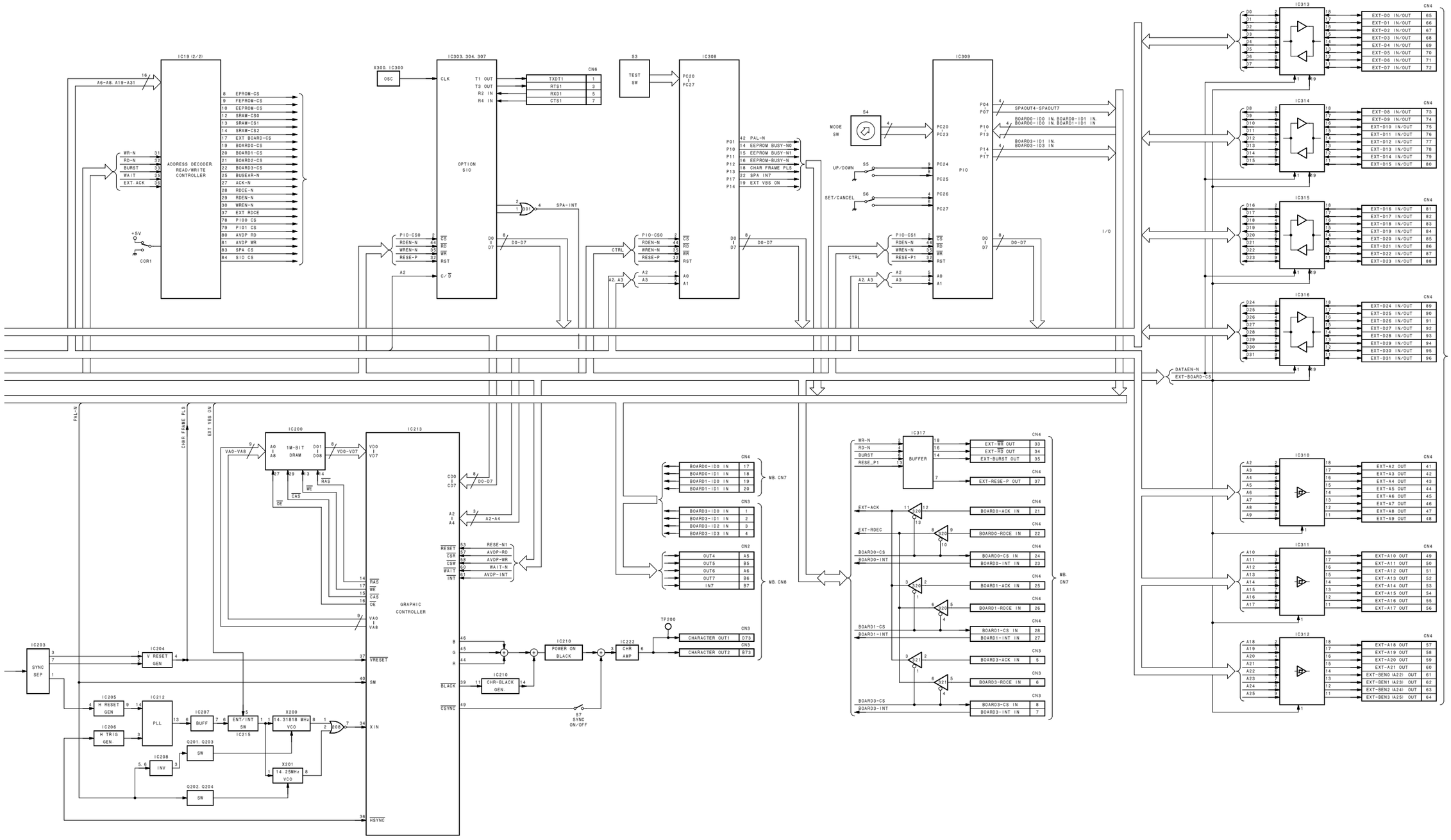
IF-777 (2/2)



IF-777 (2/2)
LOT NO. 910-

CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher

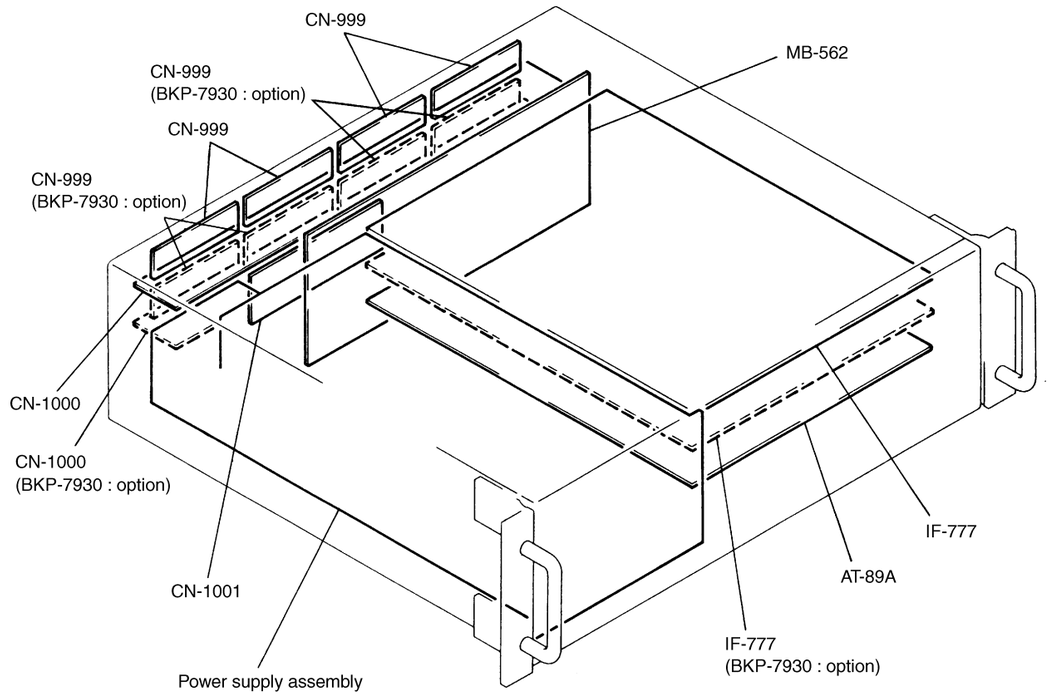


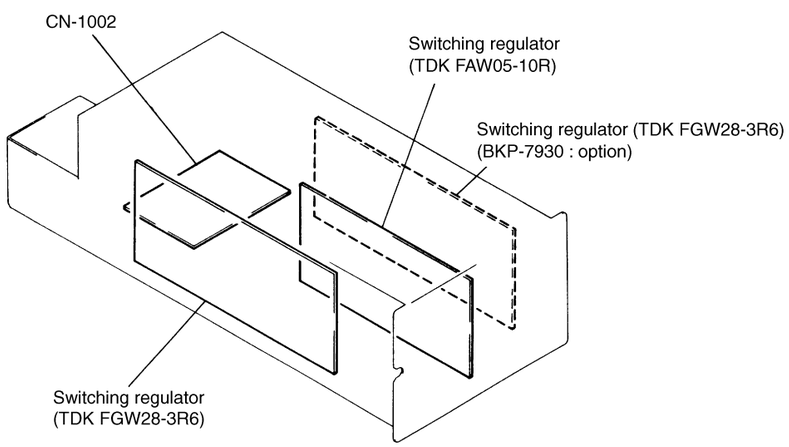


AT-89A
LOT NO. 910-

Section 6
Schematic Diagrams

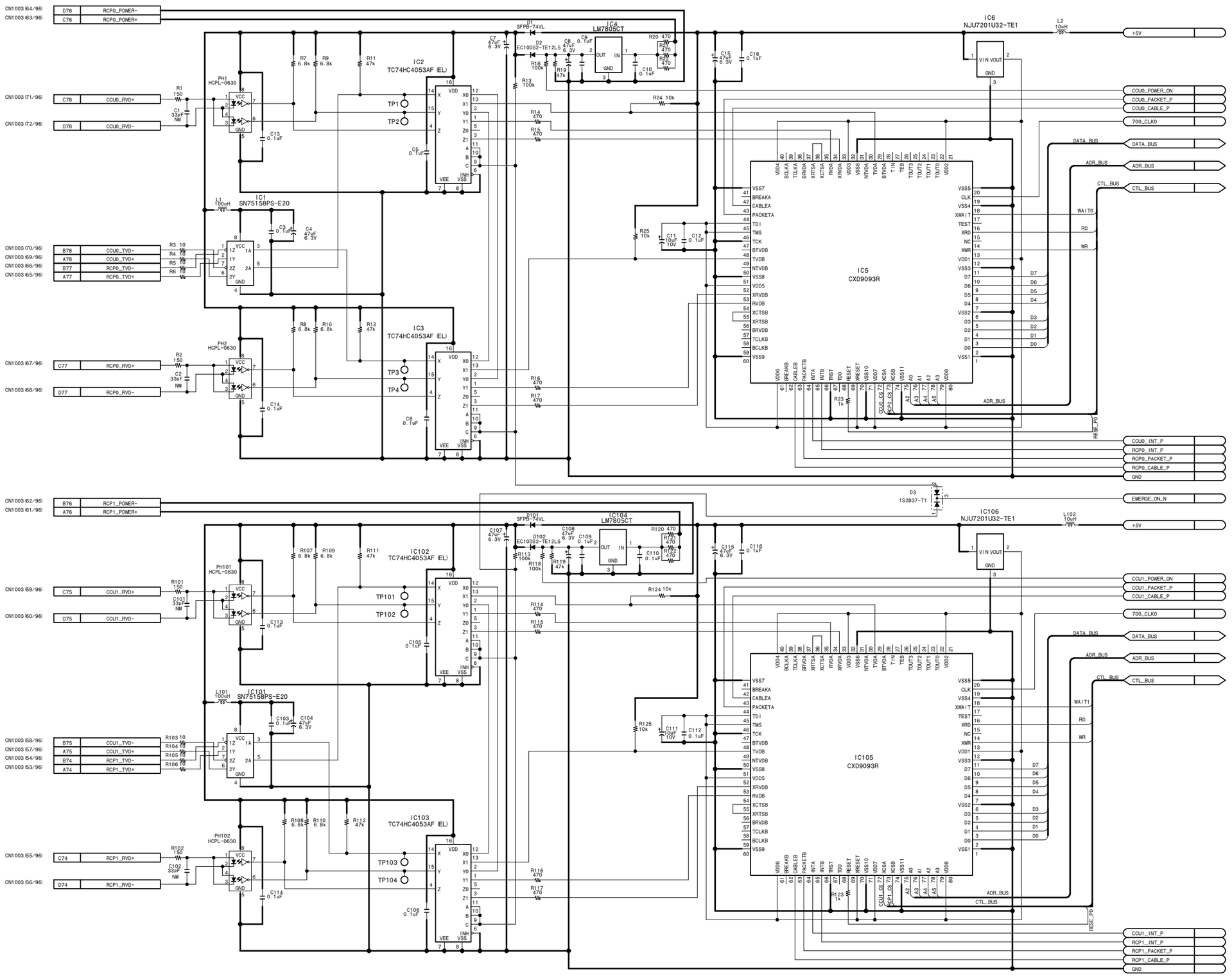
Location of Printed Circuit Boards

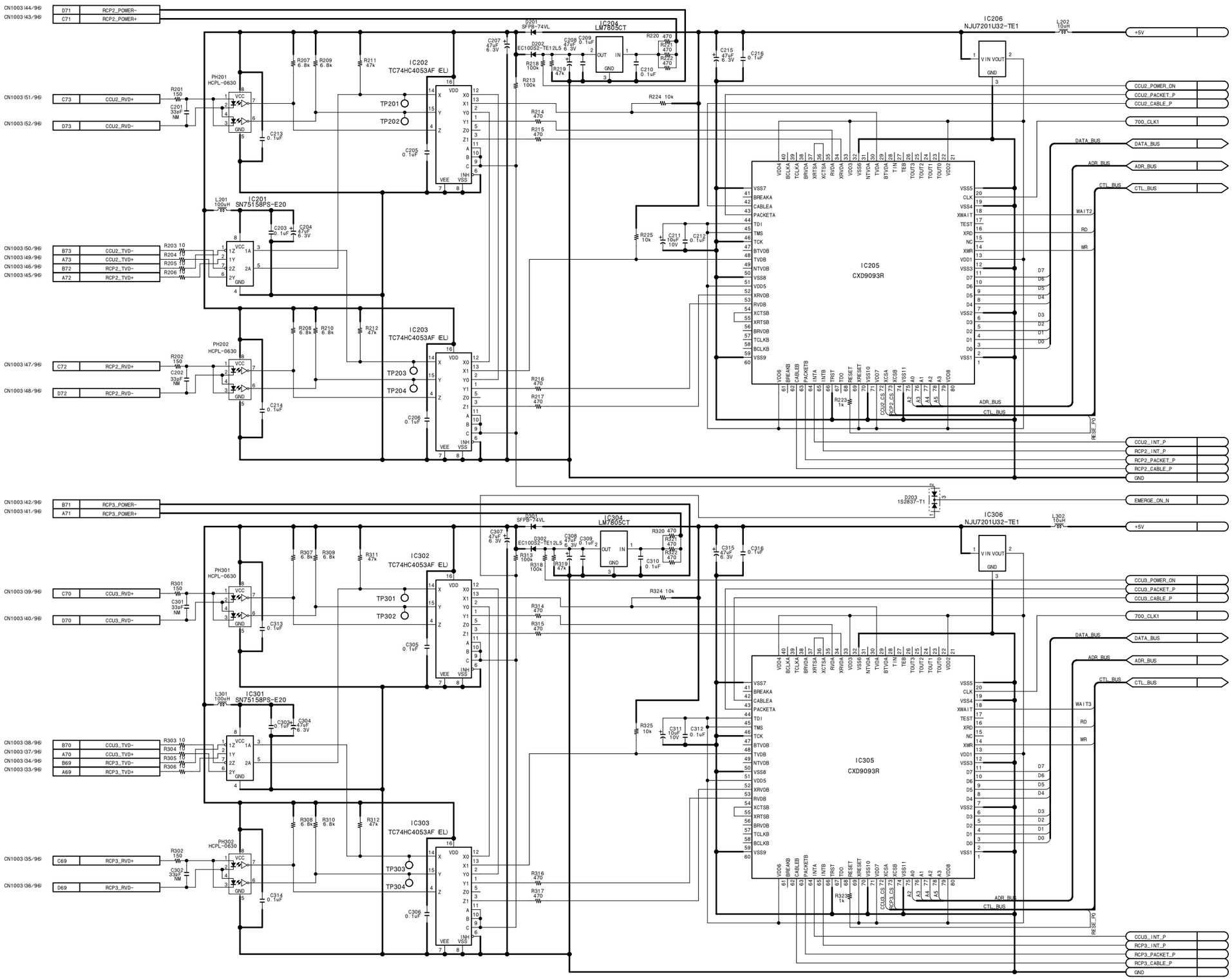




IF-777 (1/4)

CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher

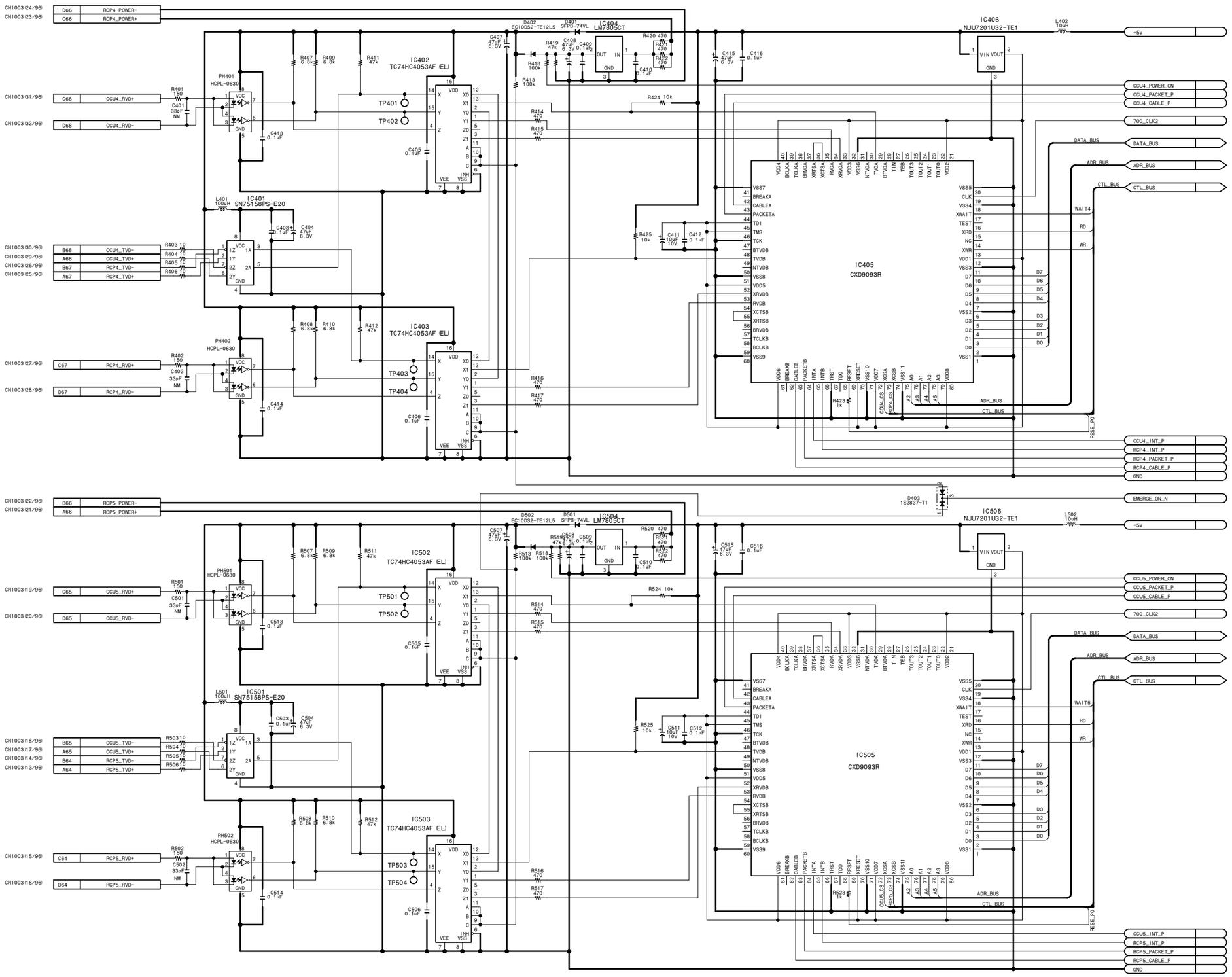




IF-777 (1/4)
BOARD NO. 1-676-546-11
LOT NO. 910-
GS-CNU-700_IF-777_003_1

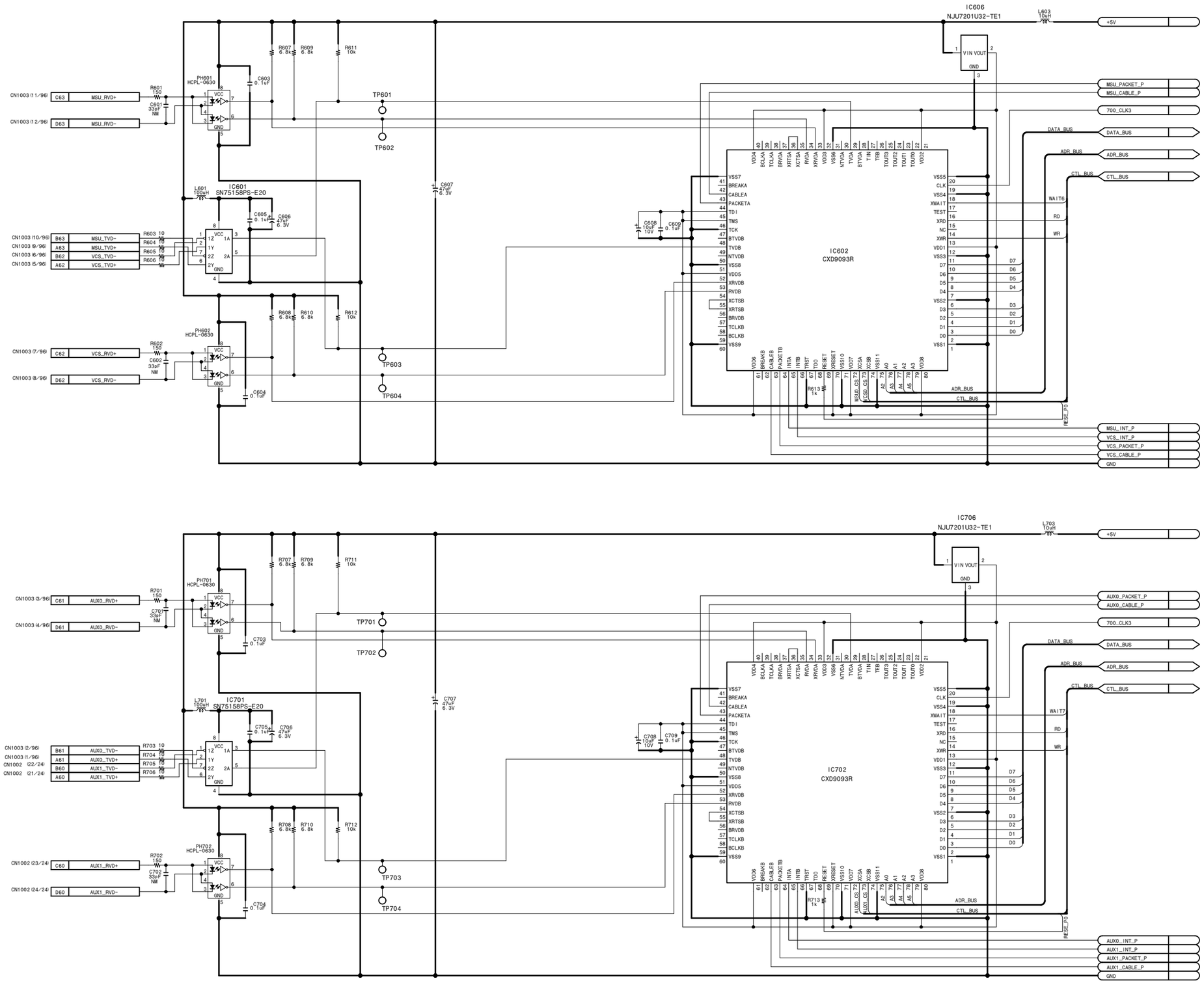
IF-777 (2/4)

CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher



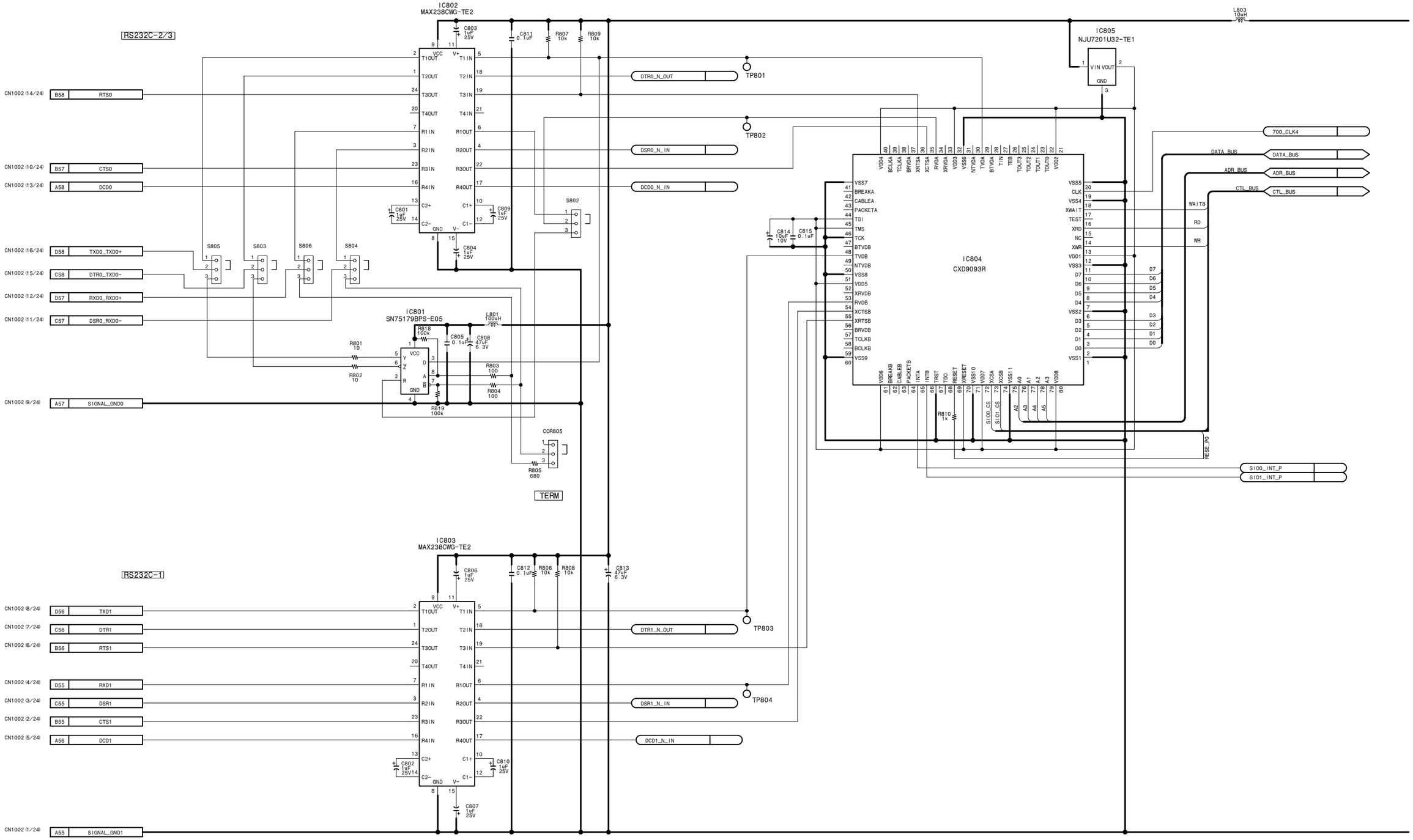
6-4

CNU-700

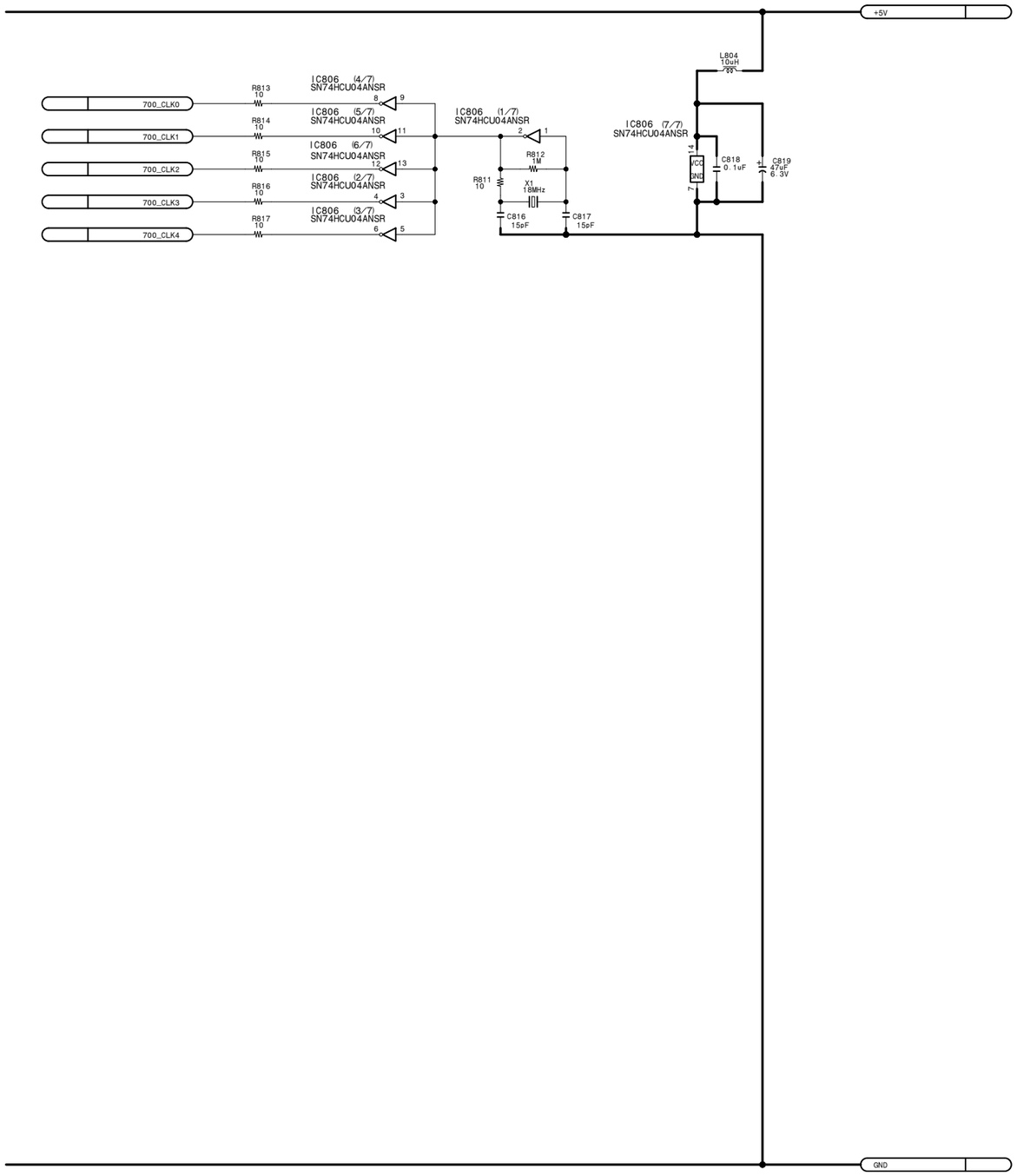


IF-777 (2/4)
BOARD NO. 1-676-546-11
LOT NO. 910-
GS-CNU-700_IF-777_003_2

CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher



IF-777 (3/4)

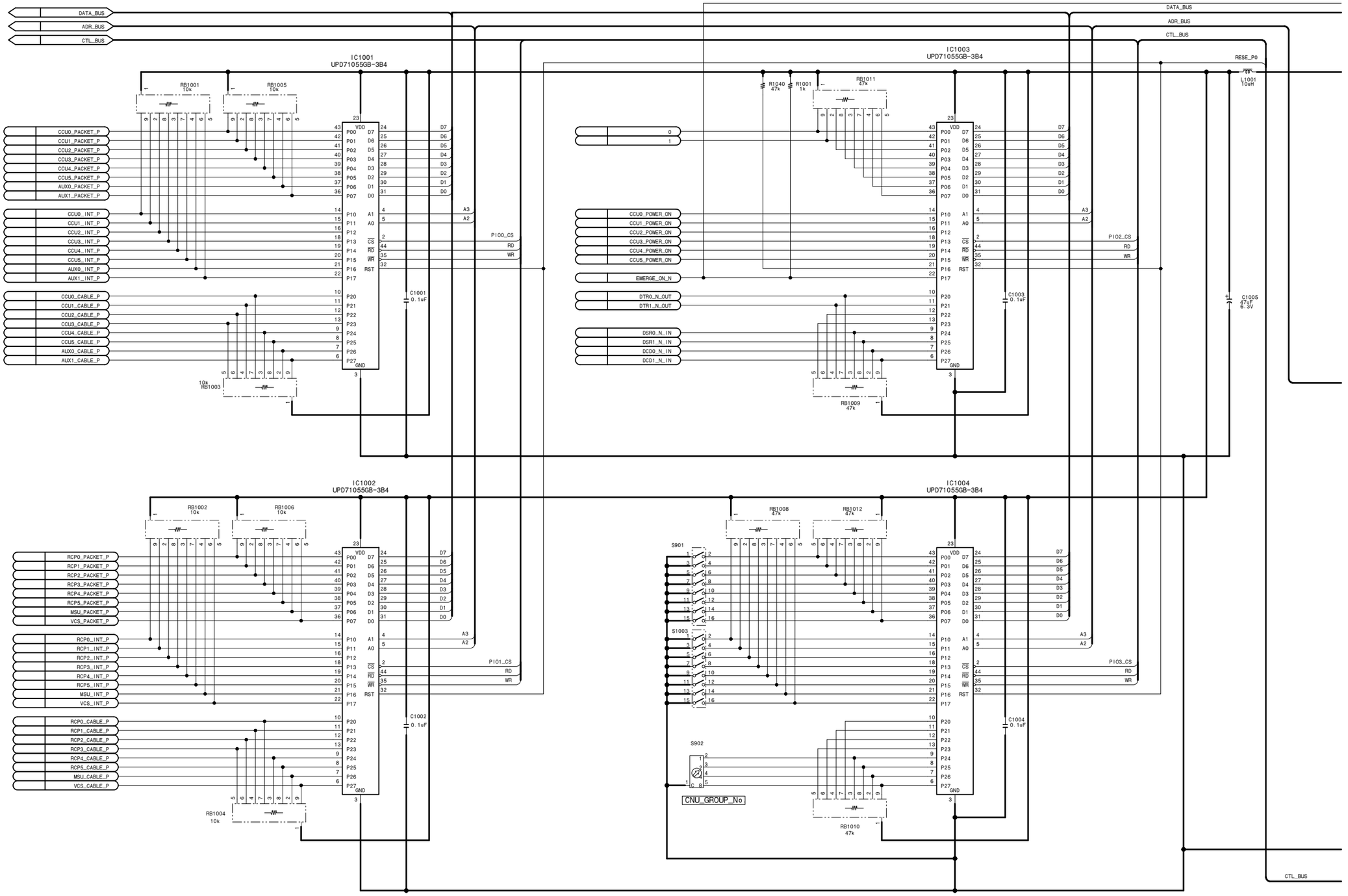


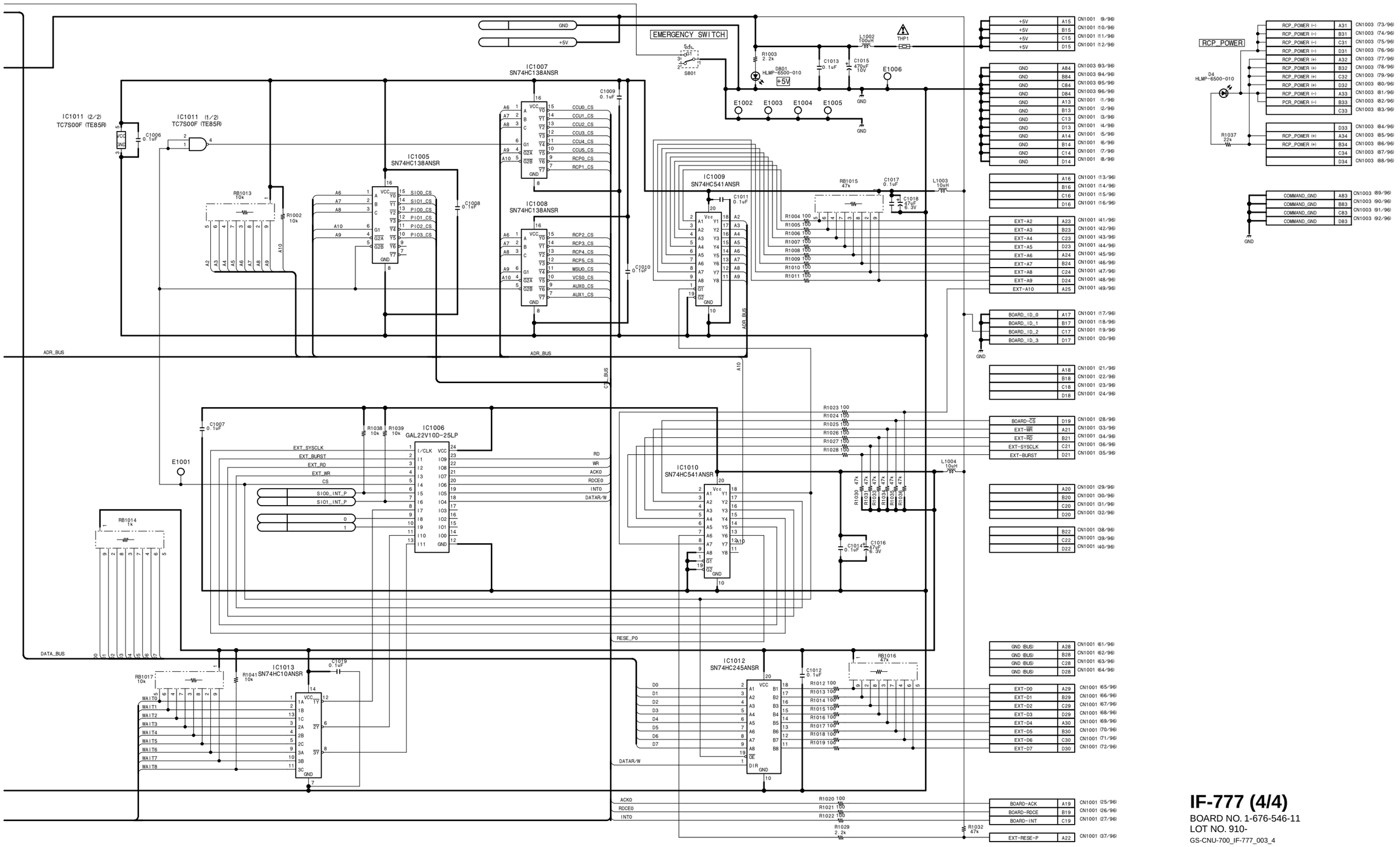
IF-777 (3/4)

BOARD NO. 1-676-546-11
LOT NO. 910-
GS-CNU-700_IF-777_003_3

IF-777 (4/4)

CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher

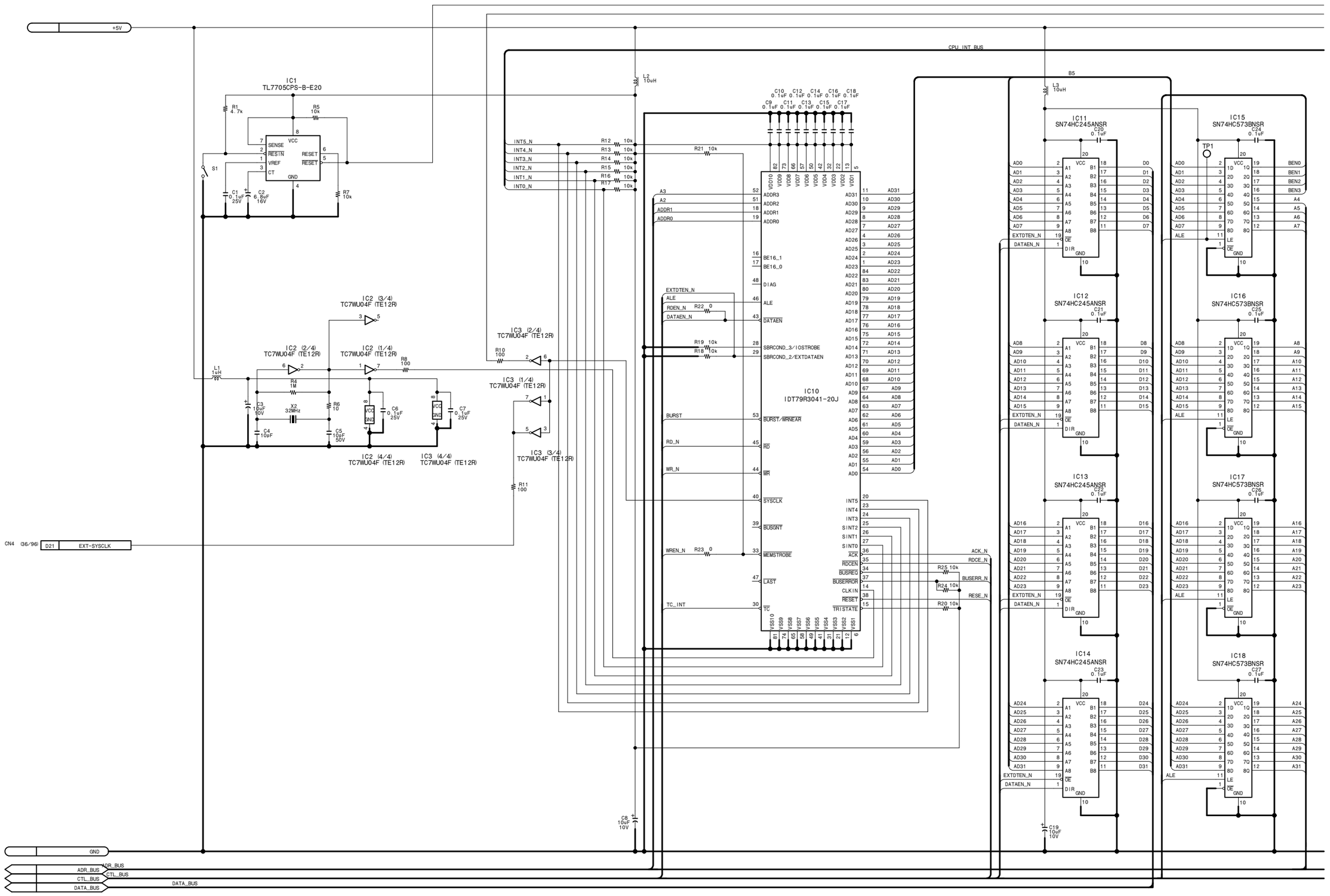


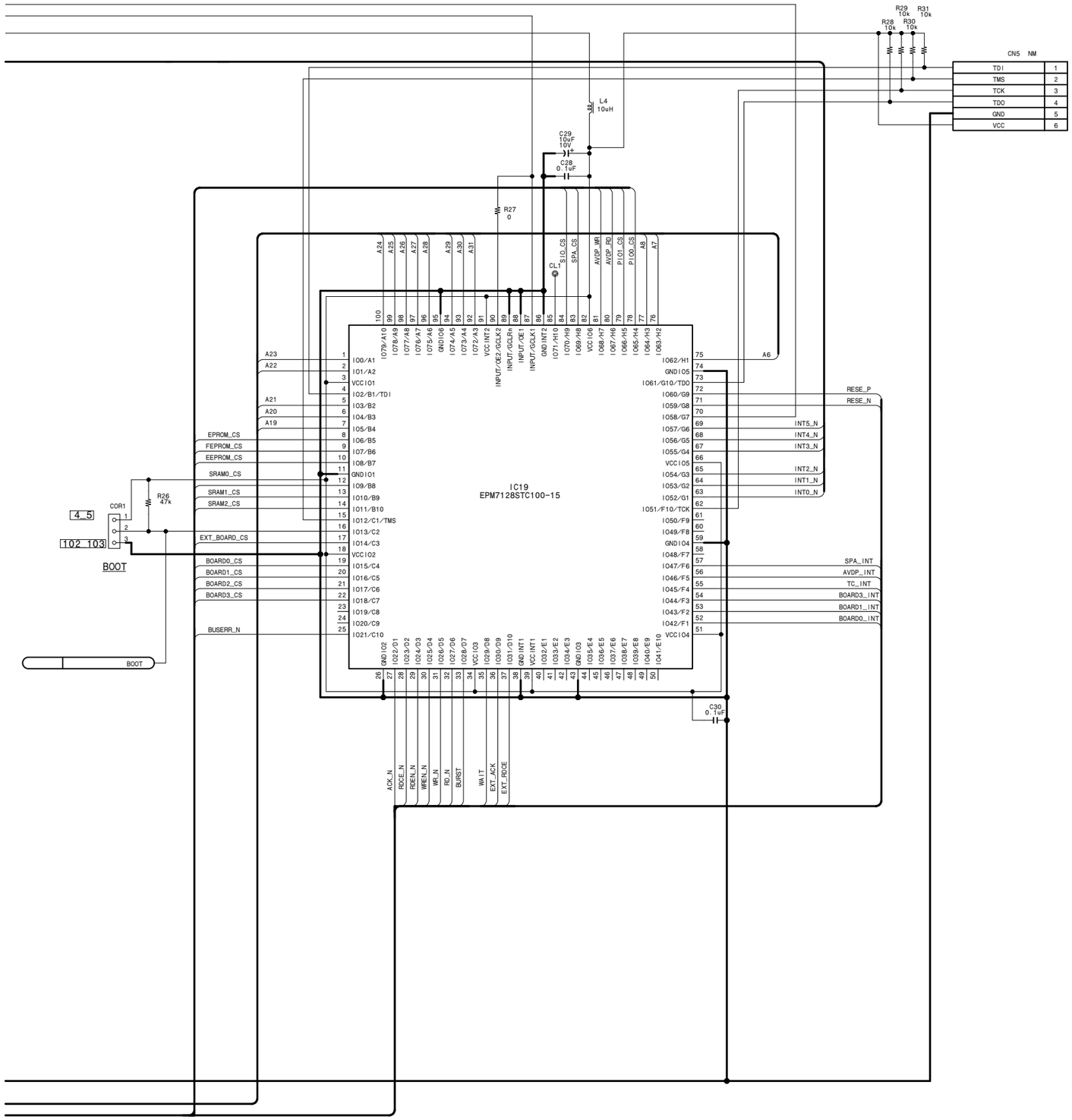


IF-777 (4/4)
BOARD NO. 1-676-546-11
LOT NO. 910-
GS-CNU-700_IF-777_003_4

AT-89A (1/4)

CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher



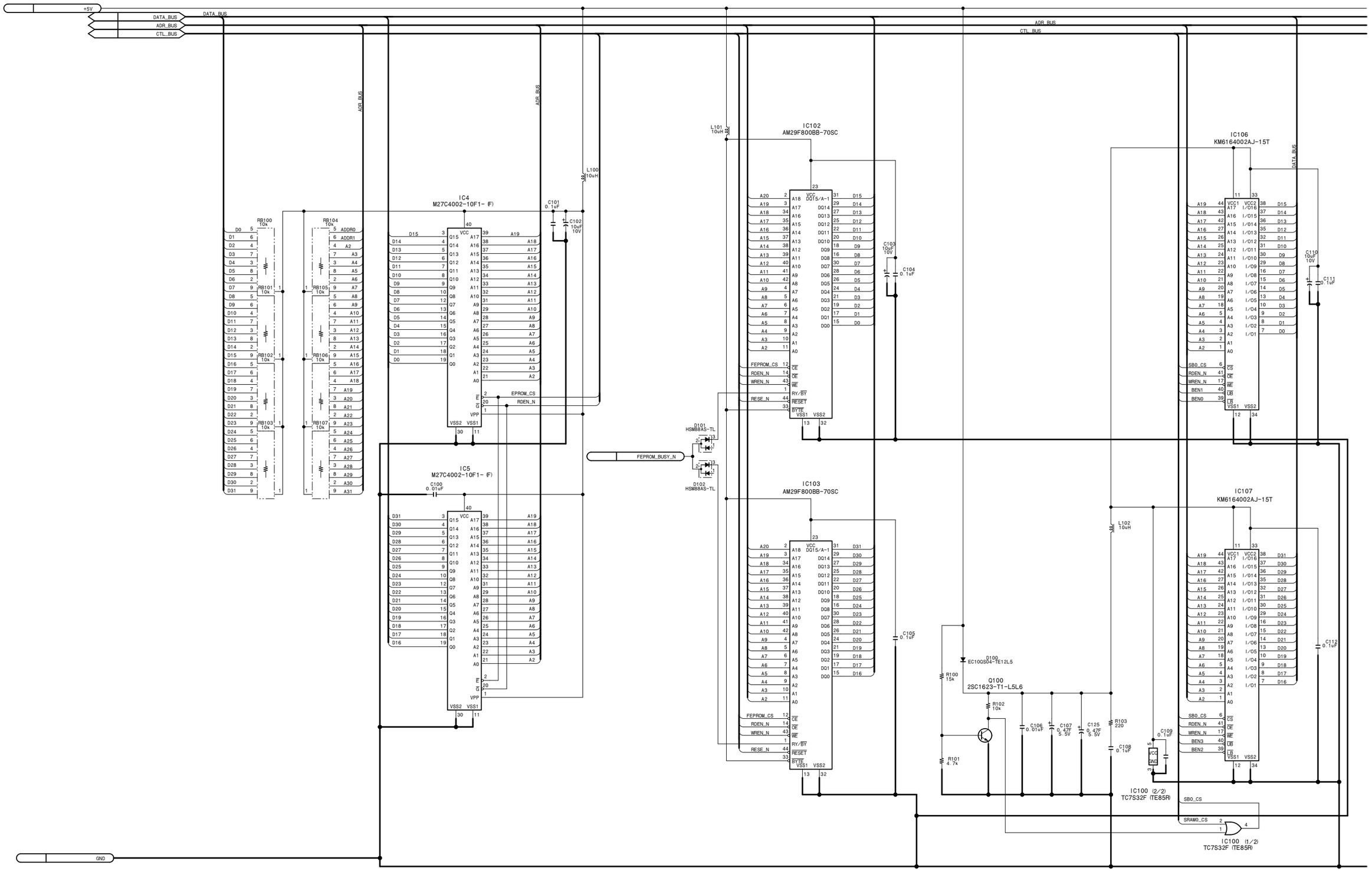


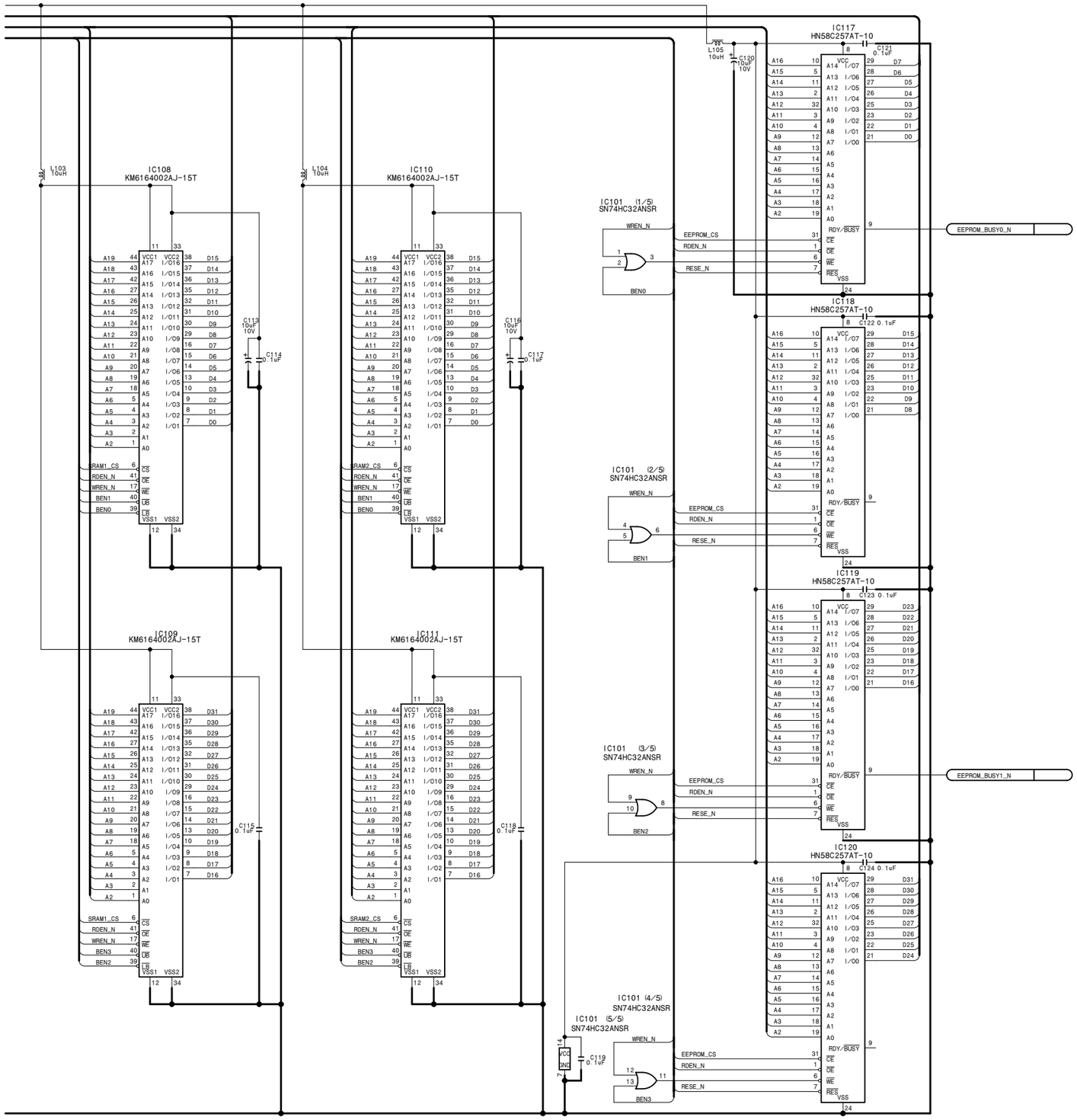
AT-89A (1/4)

BOARD NO. 1-676-547-11
LOT NO. 910-
GS-CNU-700_AT-89A-002_1

AT-89A (2/4)

CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher

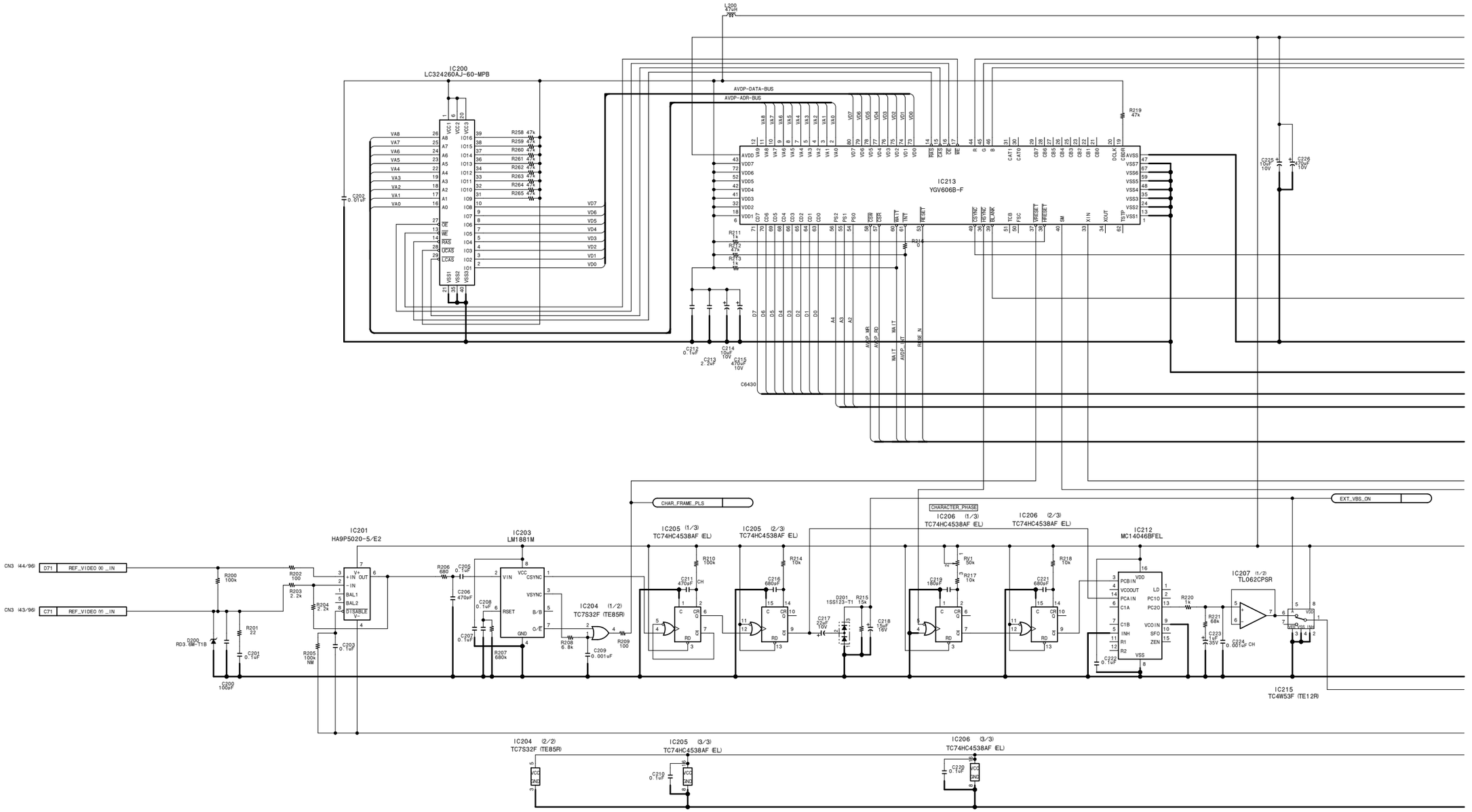




AT-89A (2/4)
BOARD NO. 1-676-547-11
LOT NO. 910-
GS-CNU-700_AT-89A-002_2

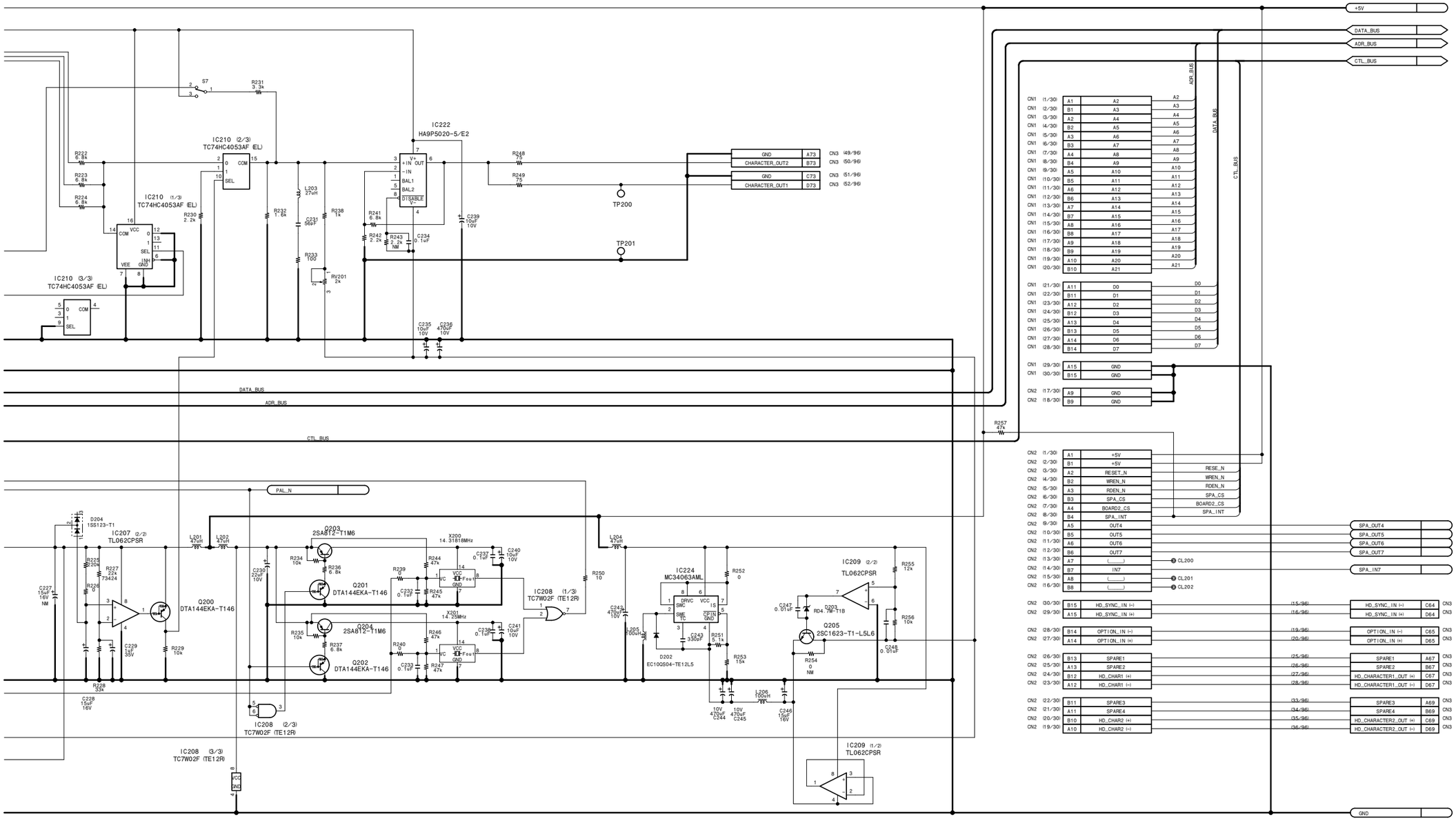
AT-89A (3/4)

CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher



6-14

AT-89A (3/4)

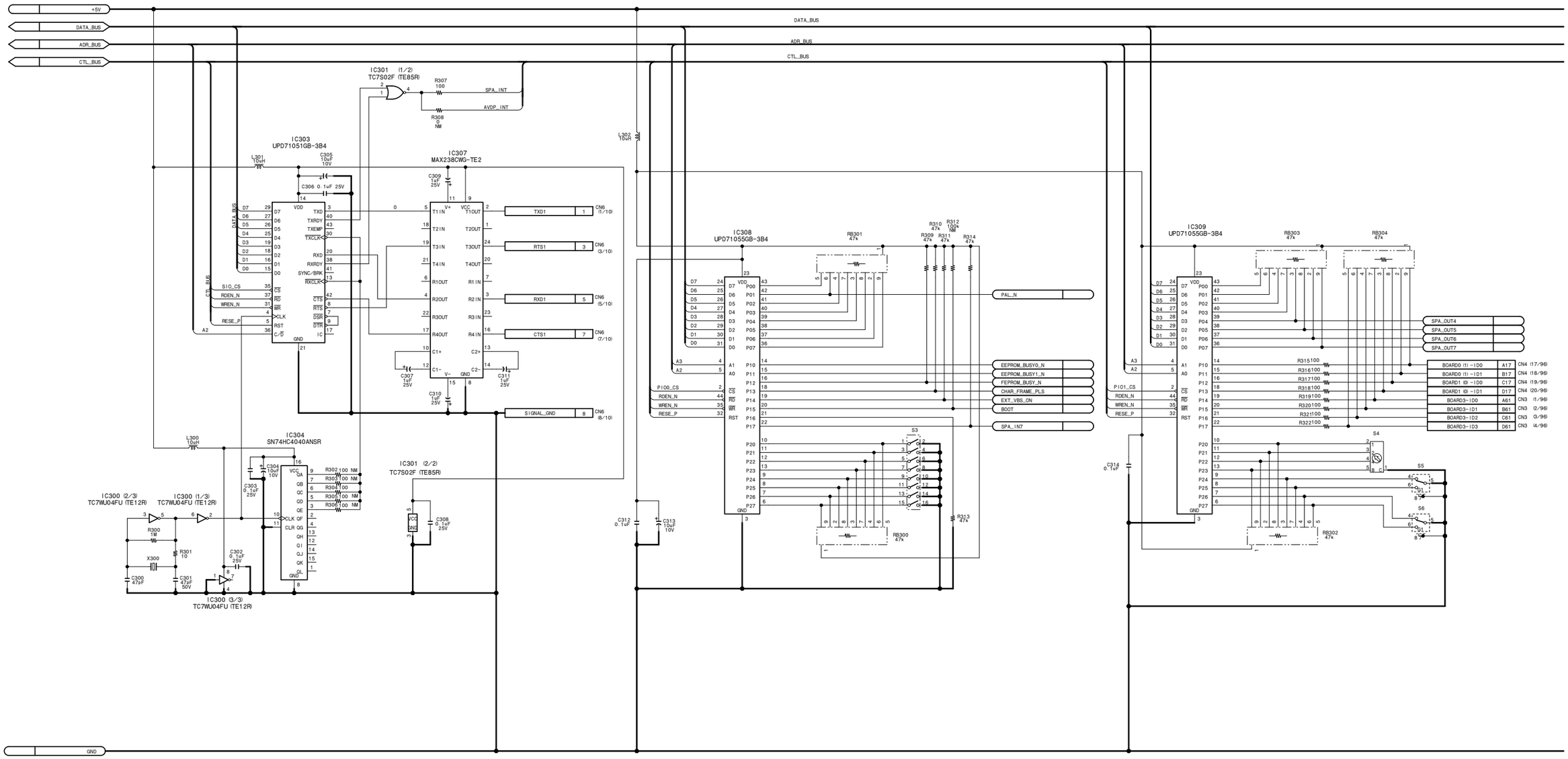


AT-89A (3/4)

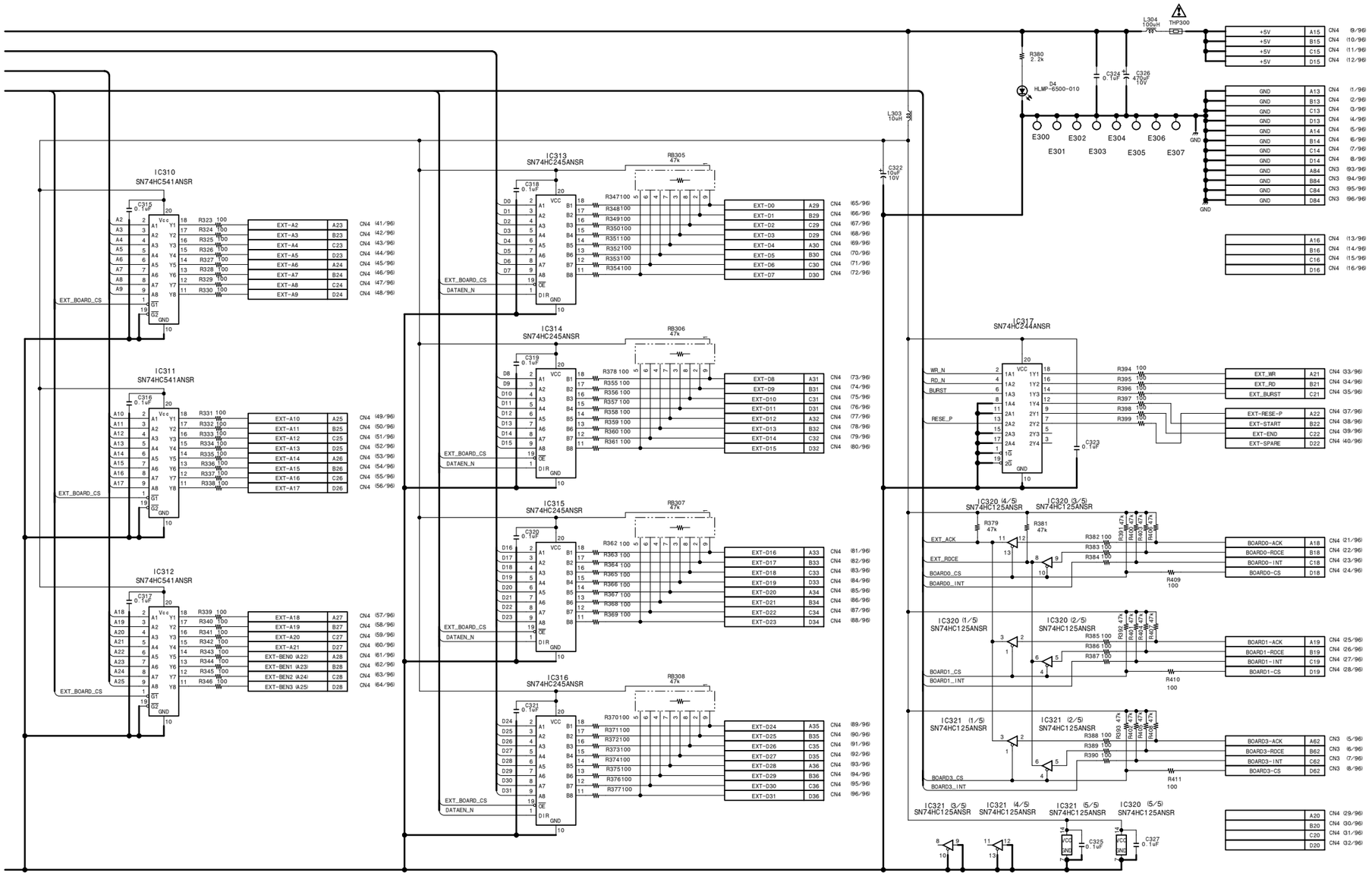
BOARD NO. 1-676-547-11
LOT NO. 910-
GS-CNU-700_AT-89A-002_3

AT-89A (4/4)

CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher



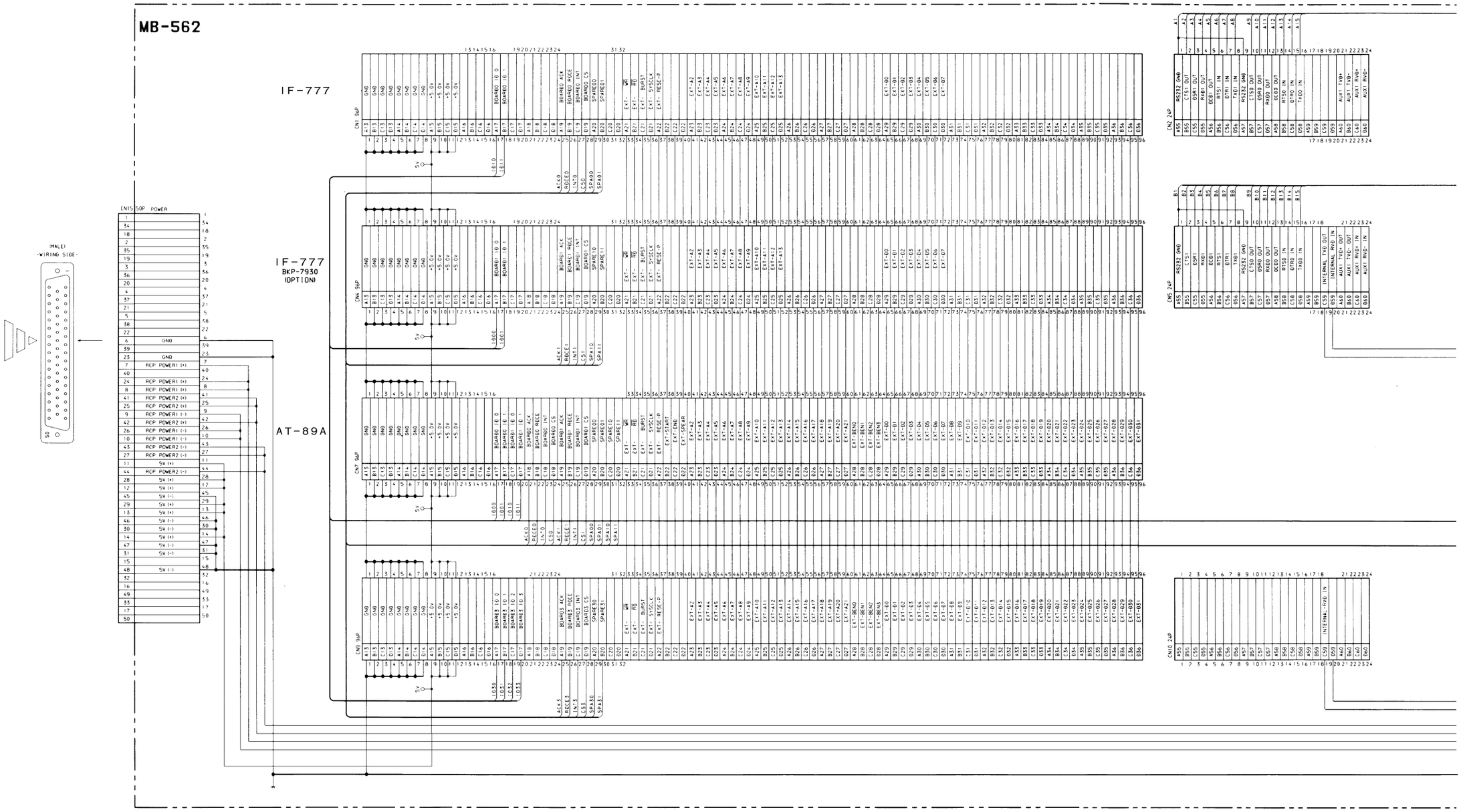
6-16

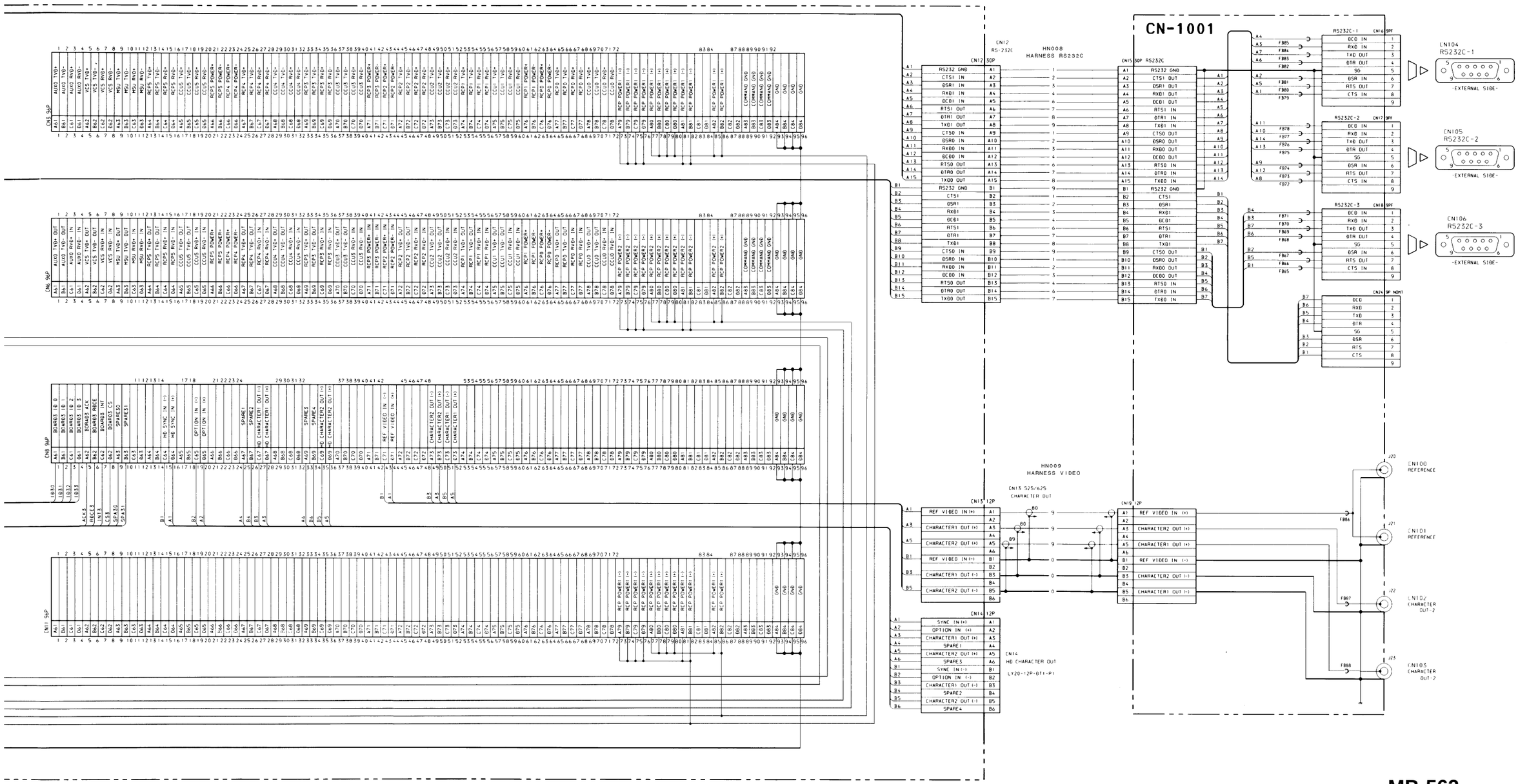


AT-89A (4/4)

BOARD NO. 1-676-547-11
LOT NO. 910-
GS-CNU-700_AT-89A-002_4

CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher





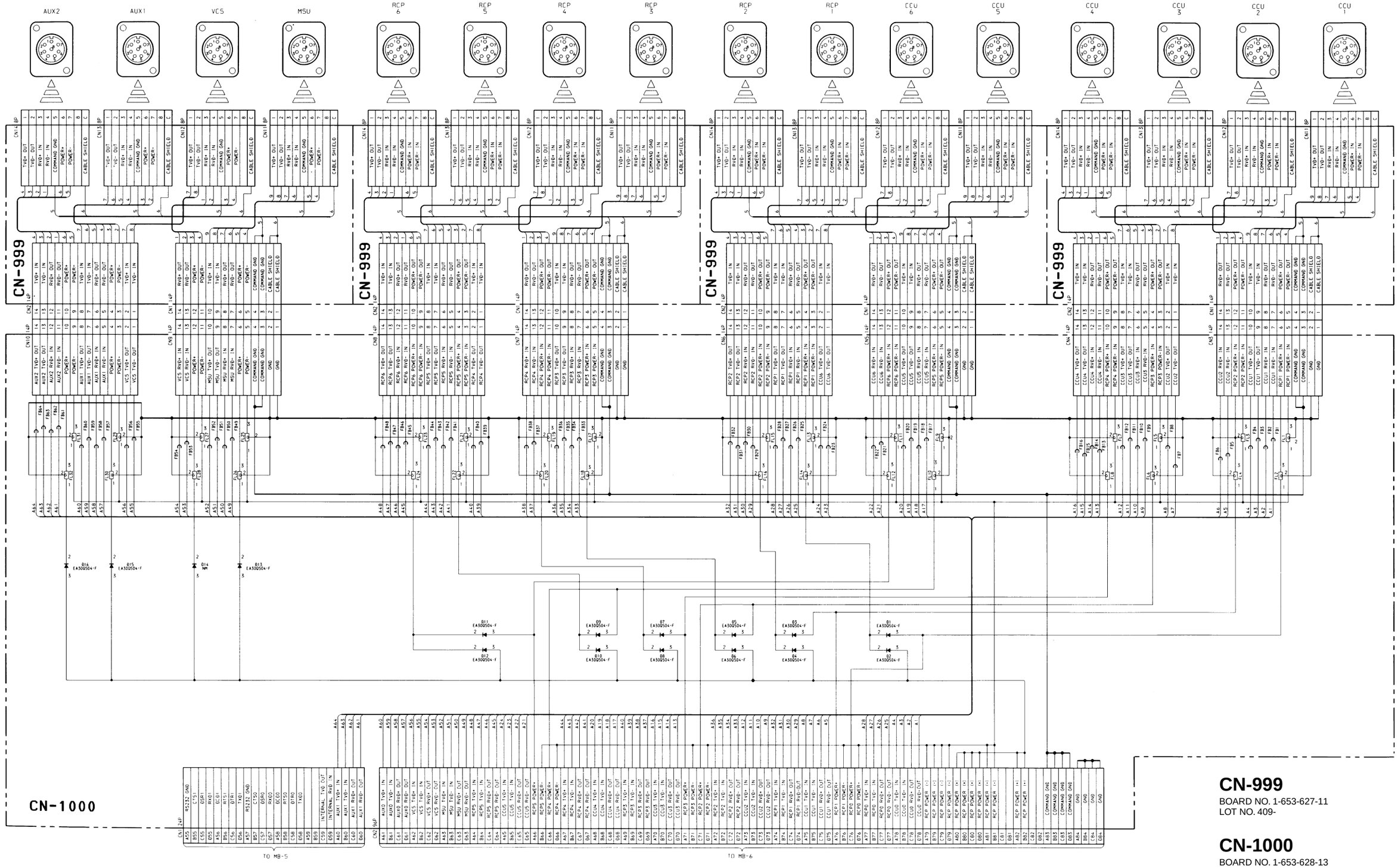
MB-562

BOARD NO. 1-653-626-11
LOT NO. 409-

CN-1001

BOARD NO. 1-653-629-11
LOT NO. 409-

CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher



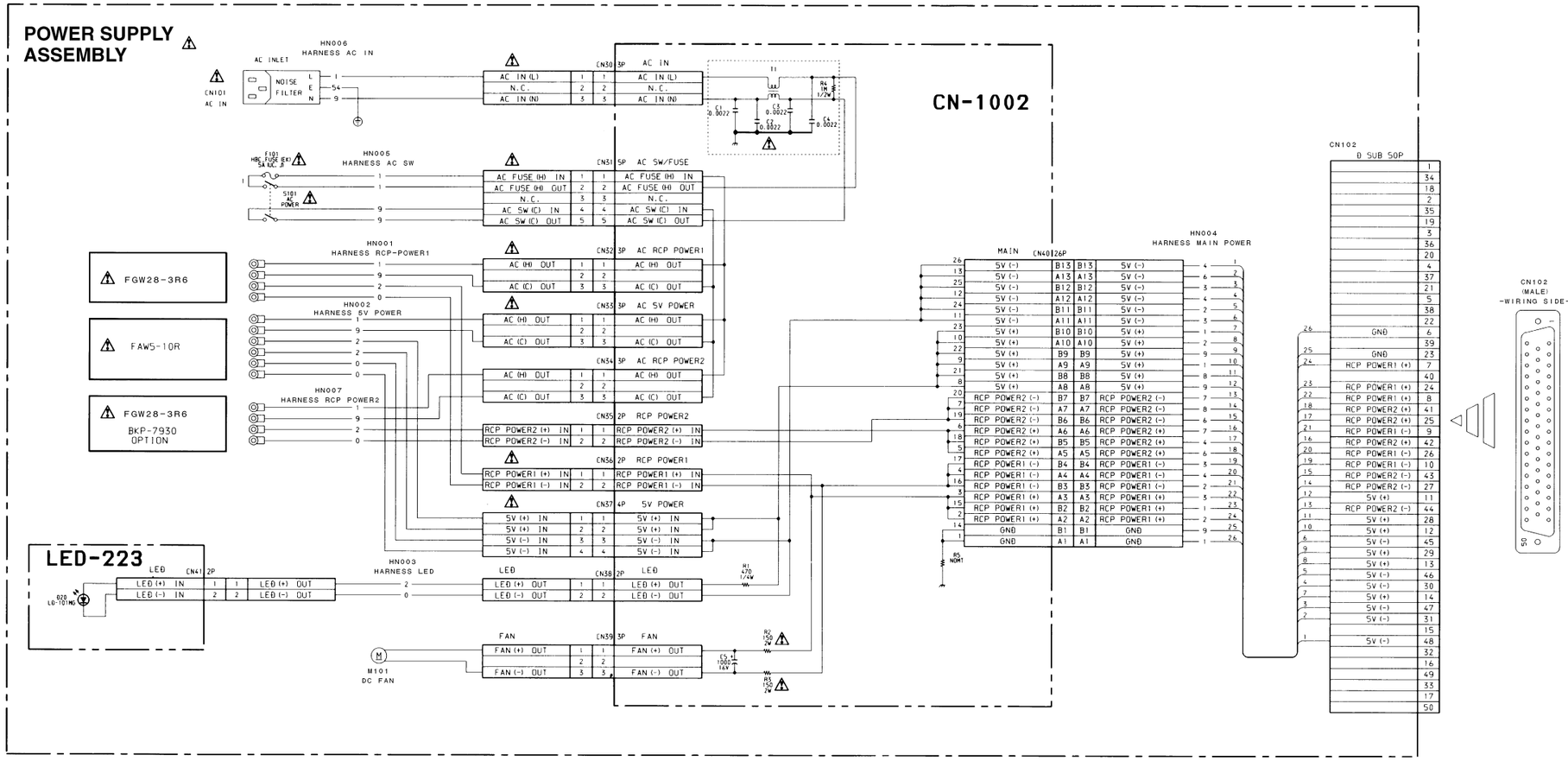
CN-999

BOARD NO. 1-653-627-11
LOT NO. 409-

CN-1000

BOARD NO. 1-653-628-13
LOT NO. 409-

CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher



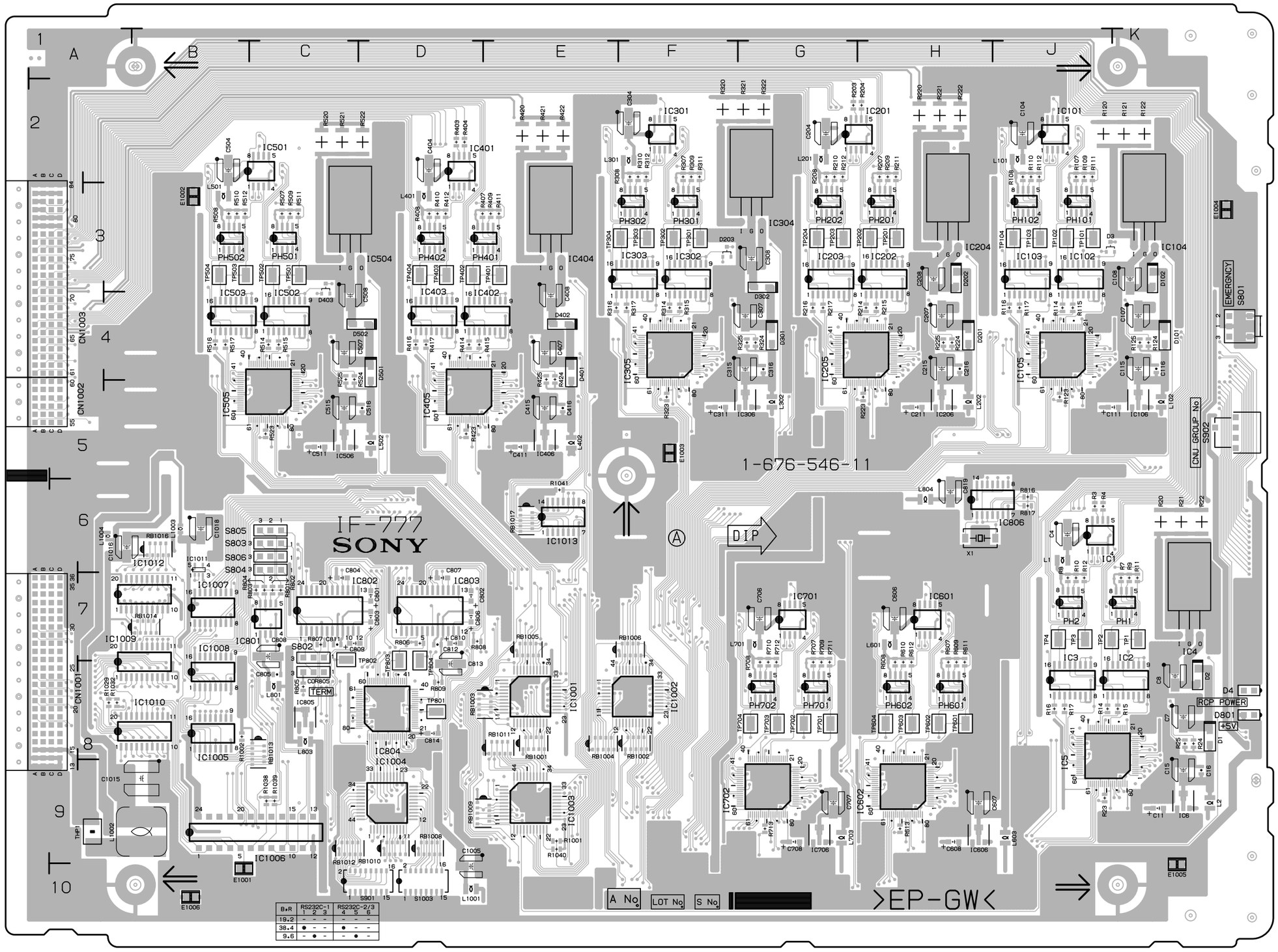
CN-1002

BOARD NO. 1-653-630-14
LOT NO. 409-

LED-223

BOARD NO. 1-653-623-13
LOT NO. 409-

Section 7
Board Layouts



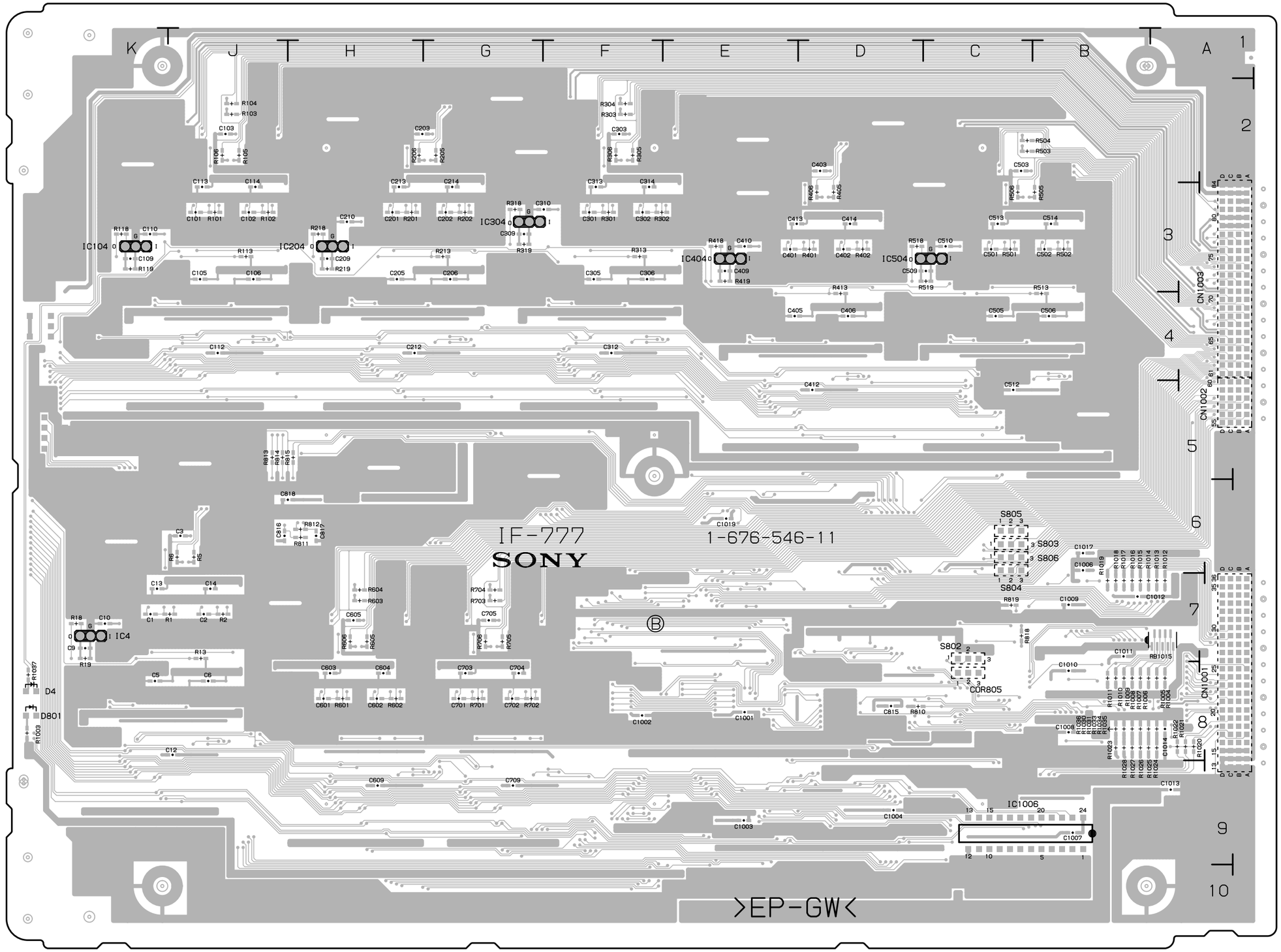
CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher

IF-777 -A SIDE-
SUFFIX: -11

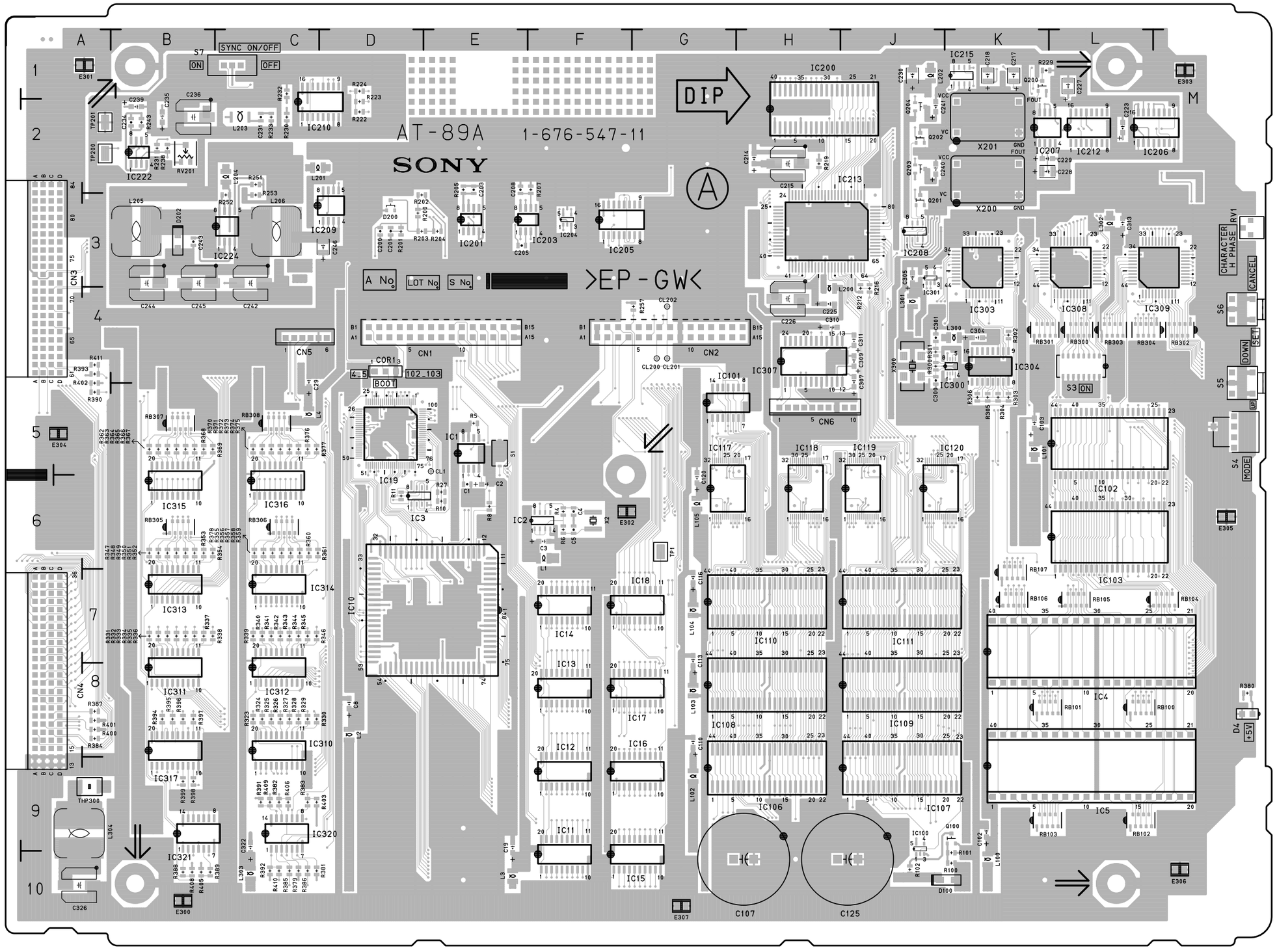
IF-777(1-676-546-11)

C1	*K7	C603	*H8	IC202	H4
C2	*J7	C604	*H8	IC203	G4
C3	*J6	C605	*H7	IC204	H3
C4	J6	C606	H7	IC205	H4
C5	*K8	C607	H9	IC206	H5
C6	*J8	C608	H9	IC301	F2
C7	K8	C609	*H9	IC302	F4
C8	K8	C701	*G8	IC303	E4
C9	*K7	C702	*G8	IC304	G3
C10	*K7	C703	*G8	IC305	F4
C11	K9	C704	*G8	IC306	G5
C12	*J8	C705	*G7	IC401	D3
C13	*K7	C706	G7	IC402	D4
C14	*J7	C707	G9	IC403	D4
C15	K9	C708	G9	IC404	E3
C16	K9	C709	*G9	IC405	D5
C101	*J3	C801	D7	IC406	E5
C102	*J3	C802	D7	IC501	C3
C103	*J2	C803	D7	IC502	C4
C104	J2	C804	C7	IC503	B4
C105	*J3	C805	C8	IC504	C3
C106	*J3	C806	D7	IC505	C5
C107	K4	C807	D7	IC506	C5
C108	K3	C808	C7	IC601	H7
C109	*K3	C809	C7	IC602	H9
C110	*K3	C810	D7	IC606	H9
C111	K5	C811	C7	IC701	G7
C112	*J4	C812	D7	IC702	G9
C113	*J3	C813	D8	IC706	G9
C114	*J3	C814	D8	IC801	C7
C115	K4	C815	*D8	IC802	C7
C116	K4	C816	*J6	IC803	D7
C201	*H3	C817	*H6	IC804	D8
C202	*G3	C818	*H6	IC805	C8
C203	*H2	C819	H6	IC806	H6
C204	G2	C1001	*E8	IC1001	E8
C205	*H3	C1002	*F8	IC1002	F8
C206	*G3	C1003	*E9	IC1003	E9
C207	H4	C1004	*D9	IC1004	D9
C208	H3	C1005	D10	IC1005	B8
C209	*H3	C1006	*B6	IC1006	B9
C210	*H3	C1007	*B9	IC1007	B7
C211	H5	C1008	*B8	IC1008	B8
C212	*H4	C1009	*B7	IC1009	A8
C213	*H3	C1010	*B8	IC1010	A8
C214	*G3	C1011	*B7	IC1011	B6
C215	H4	C1012	*B7	IC1012	A7
C216	H4	C1013	*A9		
C301	*F3	C1014	*A8	L1	J6
C302	*F3	C1015	B9	L2	K9
C303	*F2	C1016	A6	L101	J2
C304	F2	C1017	*B6	L102	K5
C305	*F3	C1018	B6	L201	G2
C306	*F3			L202	H5
C307	G4	CN1001	A8	L301	F2
C308	G3	CN1002	A5	L302	G5
C309	*G3	CN1003	A3	L401	D3
C310	*F3			L402	E5
C311	F5	COR805	C8	L501	B3
C312	*F4			L502	D5
C313	*F3	D1	K8	L601	H7
C314	*F3	D2	K8	L603	J9
C315	G4	D3	J3	L701	G7
C316	G4	D4	K8	L703	G9
C401	*E3	D101	K4	L801	C8
C402	*D3	D102	K3	L803	C8
C403	*D2	D201	H4	L804	H6
C404	D2	D202	H3	L1001	D10
C405	*E4	D203	F3	L1002	B9
C406	*D4	D301	G4	L1003	B6
C407	E4	D302	G3	L1004	A6
C408	E4	D401	E4		
C409	*E3	D402	E4	PH1	K7
C410	*E3	D403	C3	PH2	J7
C411	E5	D501	D4	PH101	J3
C412	*D5	D502	D4	PH102	J3
C413	*E3	D801	K8	PH201	H3
C414	*D3			PH202	G3
C415	E5	E1001	B10	PH301	F3
C416	E5	E1002	B3	PH302	F3
C501	*C3	E1003	F5	PH401	E3
C502	*B3	E1004	K3	PH402	D3
C503	*C2	E1005	K10	PH501	C3
C504	B2	E1006	B10	PH502	B3
C505	*C4			PH601	H8
C506	*B4	IC1	J6	PH602	H8
C507	C4	IC2	J8	PH701	G8
C508	C4	IC3	J8	PH702	G8
C509	*C3	IC4	K7		
C510	*C3	IC5	J8	R1	*J7
C511	C5	IC6	K9	R2	*J7
C512	*C5	IC101	J2	R3	J6
C513	*C3	IC102	J4	R4	J6
C514	*B3	IC103	J4	R5	*J6
C515	C5	IC104	K3	R6	*J6
C516	D5	IC105	J4	R7	K7
C601	*H8	IC106	K5	R8	J7
C602	*H8	IC201	G2	R9	K7

R10	J7	R408	D3	R1011	*B8
R11	K7	R409	E3	R1012	*A7
R12	J7	R410	D3	R1013	*A7
R13	*J7	R411	E3	R1014	*B7
R14	J8	R412	D3	R1015	*B7
R15	K8	R413	*D4	R1016	*B7
R16	J8	R414	D4	R1017	*B7
R17	J8	R415	D4	R1018	*B7
R18	*K7	R416	D4	R1019	*B7
R19	*K7	R417	D4	R1020	*A8
R20	K6	R418	*E3	R1021	*A8
R21	K6	R419	*E3	R1022	*A8
R22	K6	R420	E2	R1023	*B8
R23	J9	R421	E2	R1024	*A8
R24	K8	R422	E2	R1025	*B8
R25	K8	R423	D5	R1026	*B8
R101	*J3	R424	E4	R1027	*B8
R102	*J3	R425	E4	R1028	*B8
R103	*J2	R501	*C3	R1029	A8
R104	*J2	R502	*B3	R1030	*B8
R105	*J2	R503	*C2	R1031	*B8
R106	*J2	R504	*C2	R1032	A8
R107	J2	R505	*B3	R1033	*B8
R108	J2	R506	*C3	R1034	*B8
R109	J2	R507	C3	R1035	*A8
R110	J2	R508	B3	R1036	*B8
R111	J2	R509	C3	R1037	*K8
R112	J2	R510	B3	R1038	C9
R113	*J3	R511	C3	R1039	C9
R114	J4	R512	B3	R1040	E9
R115	J4	R513	*B4		
R116	J4	R514	C4	RB1001	E8
R117	J4	R515	C4	RB1002	F8
R118	*K3	R516	B4	RB1003	E8
R119	*K3	R517	B4	RB1004	E8
R120	J2	R518	*D3	RB1005	E7
R121	K2	R519	*C3	RB1006	F7
R122	K2	R520	C2	RB1008	D9
R123	J5	R521	C2	RB1009	E9
R124	K4	R522	D2	RB1010	D9
R125	K4	R523	C5	RB1011	E8
R201	*H3	R524	C4	RB1012	C9
R202	*G3	R525	C4	RB1013	C8
R203	G2	R601	*H8	RB1014	B7
R204	H2	R602	*H8	RB1015	*A7
R205	*G2	R603	*H7	RB1016	B6
R206	*H2	R604	*H7		
R207	H2	R605	*H7	S801	K4
R208	G2	R606	*H7	S802	C7
R209	H2	R607	H8	S803	C6
R210	G2	R608	H8	S804	C6
R211	H2	R609	H8	S805	C6
R212	G2	R610	H8	S806	C6
R213	*G3	R611	H8	S901	D10
R214	H4	R612	H8	S902	K5
R215	H4	R613	H9	S1003	D10
R216	G4	R701	*G8		
R217	G4	R702	*G8	THP1	A9
R218	*H3	R703	*G7		
R219	*H3	R704	*G7	TP1	K7
R220	H2	R705	*G7	TP2	J7
R221	H2	R706	*G7	TP3	J7
R222	H2	R707	G8	TP4	J7
R223	H5	R708	G8	TP101	J3
R224	H4	R709	G8	TP102	J3
R225	H4	R710	G8	TP103	J3
R301	*F3	R711	G8	TP104	J3
R302	*F3	R712	G8	TP201	H3
R303	*F2	R713	G9	TP202	H3
R304	*F2	R801	C7	TP203	G3
R305	*F2	R802	C7	TP204	G3
R306	*F2	R803	C7	TP301	F3
R307	F2	R804	C7	TP302	F3
R308	F2	R805	C8	TP303	F3
R309	F2	R806	D7	TP304	F3
R310	F2	R807	C7	TP401	E3
R311	F2	R808	D7	TP402	D3
R312	F2	R809	D8	TP403	D3
R313	*F3	R810	*D8	TP404	D3
R314	F4	R811	*H6	TP501	C3
R315	F4	R812	*H6	TP502	C3
R316	E4	R813	*J5	TP503	B3
R317	F4	R814	*J5	TP504	B3
R318	*G3	R815	*H5	TP601	H8
R319	*G3	R816	J6	TP602	H8
R320	F2	R817	J6	TP603	H8
R321	G2	R818	*C7	TP604	H8
R322	G2	R819	*C7	TP701	G8
R323	F5	R1001	E9	TP702	G8
R324	G4	R1002	B8	TP703	G8
R325	G4	R1003	*K8	TP704	G8
R401	*D3	R1004	*A8	TP801	D8
R402	*D3	R1005	*A8	TP802	C7
R403	D2	R1006	*B8	TP803	D7
R404	D2	R1007	*B8	TP804	D7
R405	*D3	R1008	*B8		
R406	*D3	R1009	*B8	X1	H6
R407	D3	R1010	*B8		
				*:B SIDE	



IF-777 -B SIDE-
SUFFIX: -11



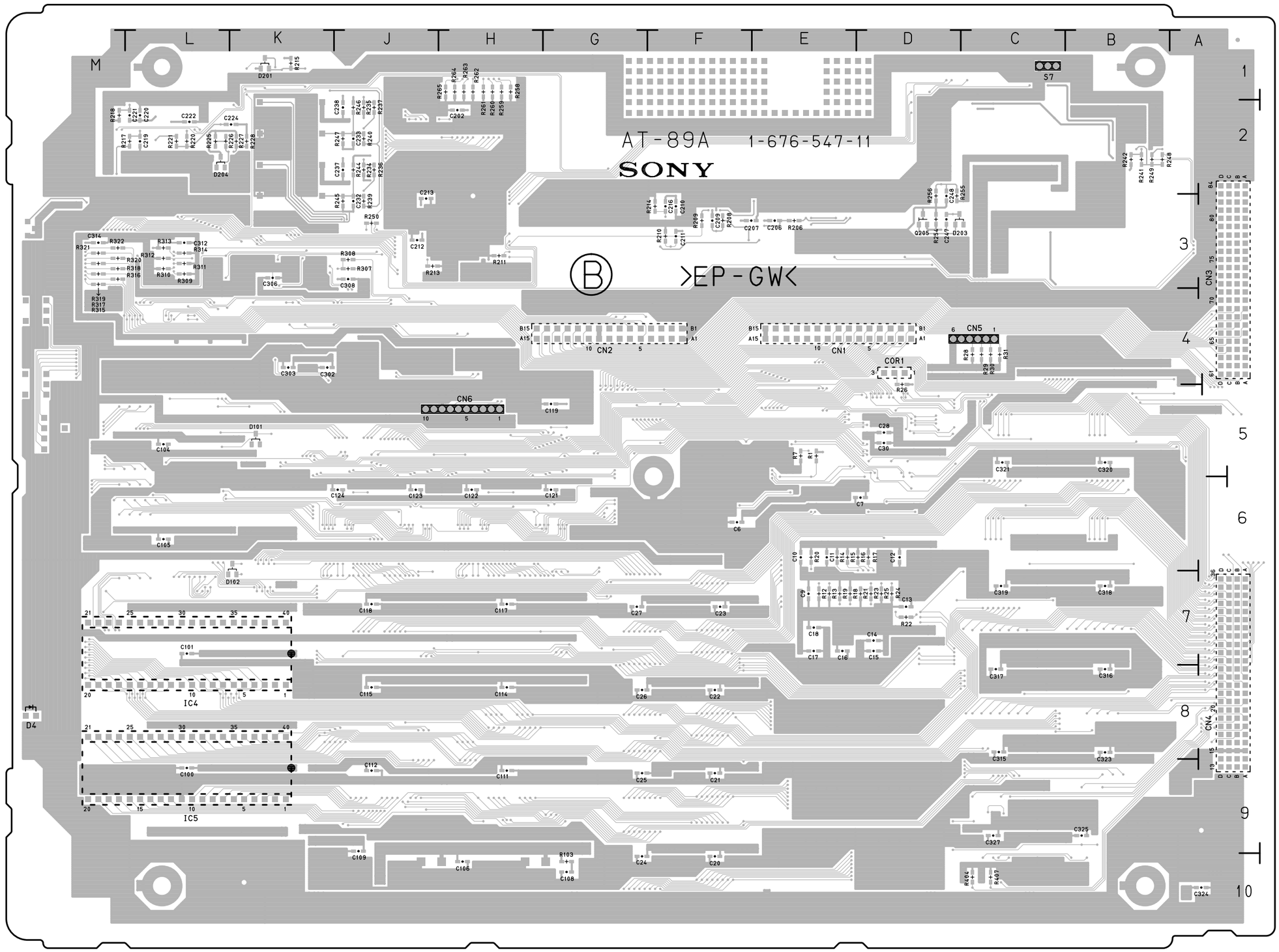
CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher

AT-89A -A SIDE-
SUFFIX: -11

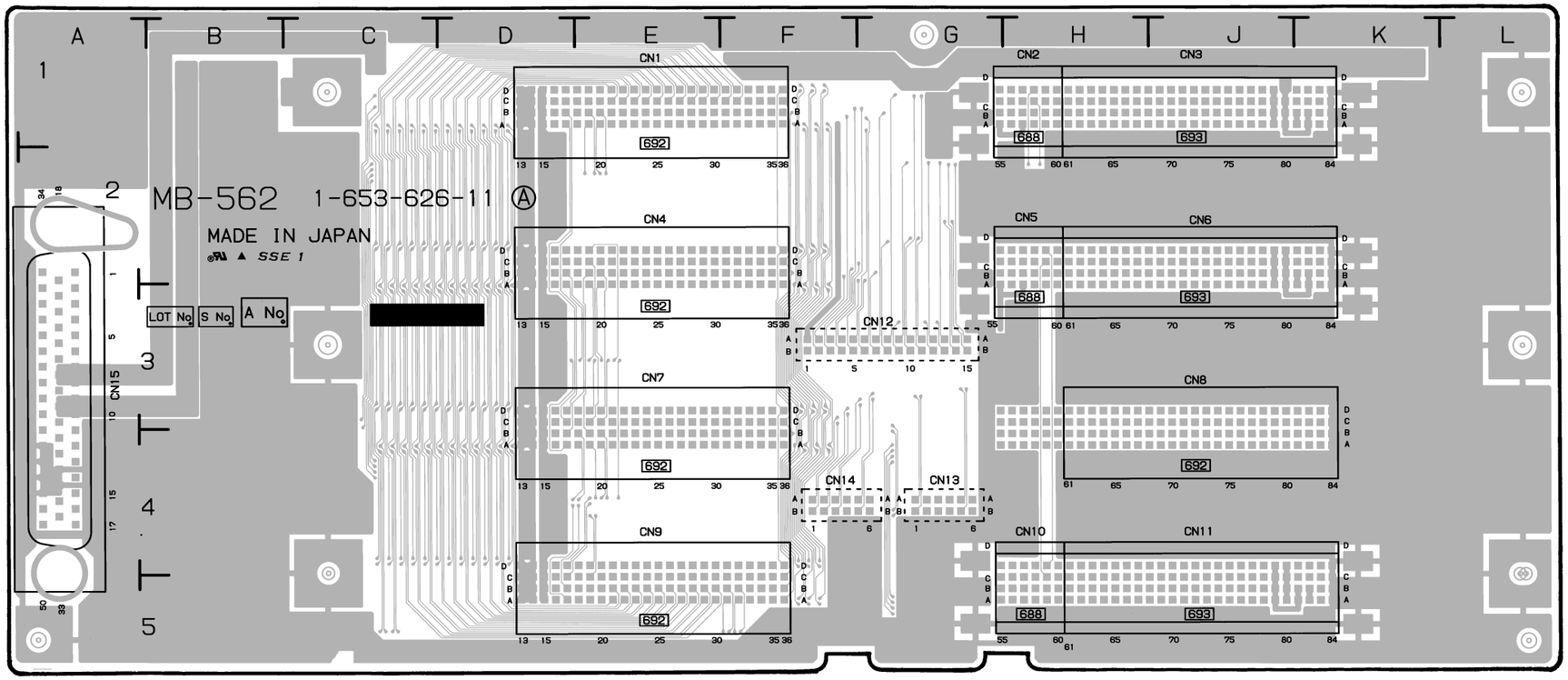
AT-89A(1-676-547-11)

C1	E6	C243	B3	IC203	E3
C2	E6	C244	B3	IC204	F3
C3	F6	C245	B3	IC205	F3
C4	F6	C246	D3	IC206	L2
C5	F6	C247	*D3	IC207	K2
C6	*F6	C248	*D3	IC208	J3
C7	*D6	C300	J4	IC209	D3
C8	D8	C301	J4	IC210	C2
C9	*E7	C302	*K4	IC212	L2
C10	*E6	C303	*K4	IC213	H3
C11	*E6	C304	K4	IC215	K1
C12	*D6	C305	J3	IC222	B2
C13	*D7	C306	*K3	IC224	C3
C14	*D7	C307	J4	IC300	K4
C15	*D7	C308	*J3	IC301	J3
C16	*E7	C309	J4	IC303	K3
C17	*E7	C310	H4	IC304	K4
C18	*E7	C311	J4	IC307	H4
C19	E9	C312	*L3	IC308	L3
C20	*F10	C313	L3	IC309	M3
C21	*F9	C314	*M3	IC310	C9
C22	*F8	C315	*C8	IC311	B8
C23	*F7	C316	*B8	IC312	C8
C24	*G10	C317	*C8	IC313	B7
C25	*G9	C318	*B7	IC314	C7
C26	*G8	C319	*C7	IC315	B6
C27	*G7	C320	*B5	IC316	C6
C28	*D5	C321	*C5	IC317	B9
C29	C4	C322	C9	IC320	C9
C30	*D5	C323	*B8	IC321	B9
C100	*L9	C324	*A10		
C101	*L7	C325	*B9	L1	F6
C102	K9	C326	A10	L4	C5
C103	K5	C327	*C9	L100	K10
C104	*L5			L101	K5
C105	*L6	CL1	E5	L102	G9
C106	*H10	CL200	G4	L103	G8
C107	H10	CL201	G4	L104	G7
C108	*G10	CL202	G4	L105	G6
C109	*J9			L200	H4
C110	G8	CN1	E4	L201	C2
C111	*H9	CN2	G4	L202	J1
C112	*J9	CN3	A3	L203	C2
C113	G7	CN4	A8	L204	C2
C114	*H8	CN5	C4	L205	B3
C115	*J8	CN6	H5	L206	C3
C116	G7			L300	K4
C117	*H7	COR1	D4	L301	J4
C118	*J7			L302	L3
C119	*G5	D4	M8	L303	C10
C120	G6	D100	K10	L304	A9
C121	*G6	D101	*K5		
C122	*H6	D102	*K6	Q100	K9
C123	*J6	D200	D3	Q200	K1
C124	*J6	D201	*K1	Q201	J3
C125	J10	D202	B3	Q202	J2
C200	D3	D203	*D3	Q203	J2
C201	D3	D204	*L2	Q204	J2
C202	*H2			Q205	*D3
C203	E2	E300	B10		
C205	E3	E301	A1	R1	*E5
C206	*E3	E302	F6	R4	F6
C207	*F3	E303	M1	R5	E5
C208	E2	E304	A5	R6	F6
C209	*F3	E305	M6	R7	*E5
C210	*F3	E306	M10	R8	E6
C211	*F3	E307	G10	R10	E6
C212	*J3			R11	D6
C213	*J3	IC2	F6	R12	*E7
C214	H2	IC3	D6	R13	*E7
C215	H2	IC4	K8	R14	*E6
C216	*F3	IC5	K9	R15	*E6
C217	K1	IC10	E7	R16	*D6
C218	K1	IC11	F10	R17	*D6
C219	*L2	IC12	F9	R18	*E7
C220	*L2	IC13	F8	R19	*E7
C221	*L2	IC14	F7	R20	*E6
C222	*L2	IC15	F10	R21	*D7
C223	L2	IC16	F9	R22	*D7
C224	*K2	IC17	F8	R23	*D7
C225	H4	IC18	F7	R24	*D7
C226	H4	IC19	D5	R25	*D7
C227	L1	IC100	J9	R26	*D5
C228	K2	IC101	G5	R27	E6
C229	K2	IC102	L6	R28	*C4
C230	J1	IC103	L6	R29	*C4
C231	C2	IC106	G9	R30	*C4
C232	*J3	IC107	J9	R31	*C4
C233	*J2	IC108	G8	R100	K10
C234	B2	IC109	J8	R101	K10
C235	B2	IC110	G7	R102	J10
C236	B2	IC111	J7	R103	*G10
C237	*J2	IC117	G6	R200	D3
C238	*J2	IC118	H6	R201	D3
C239	B2	IC119	J6	R202	D3
C240	J2	IC120	J6	R203	D3
C241	J2	IC200	H2	R204	E3
C242	C3	IC201	E3	R205	E2

R206	*E3	R338	B7	S4	M5
R207	F2	R339	C7	S5	M4
R208	*F3	R340	C7	S6	M4
R209	*F3	R341	C7	S7	C1
R210	*F3	R342	C7		
R211	*H3	R343	C7	THP300	A9
R212	J4	R344	C7		
R213	*J3	R345	C7	TP1	G6
R214	*F3	R346	C7	TP200	A2
R215	*K1	R347	B6	TP201	A2
R216	J4	R348	B6		
R217	*L2	R349	B6	X1	H6
R218	*M2	R350	B6	X2	F6
R219	H2	R351	B6	X200	K2
R220	*L2	R352	B6	X201	K2
R221	*L2	R353	B6	X300	J4
R222	D2	R354	B6		
R223	D2	R355	C6	*:B SIDE	
R224	D1	R356	C6		
R225	*L2	R357	C6		
R226	*L2	R358	C6		
R227	*K2	R359	C6		
R228	*K2	R360	C6		
R229	K1	R361	C6		
R230	C2	R362	B5		
R231	B2	R363	B5		
R232	C1	R364	B5		
R233	C2	R365	B5		
R234	*J2	R366	B5		
R235	*J2	R367	B5		
R236	*J2	R368	B5		
R237	*J2	R369	B5		
R238	B2	R370	C5		
R239	*J3	R371	C5		
R240	*J2	R372	C5		
R241	*B2	R373	C5		
R242	*B2	R374	C5		
R243	B2	R375	C5		
R244	*J2	R376	C5		
R245	*J3	R377	C5		
R246	*J2	R378	C6		
R247	*J2	R379	C10		
R248	*B2	R380	M8		
R249	*B2	R381	C10		
R250	*J3	R382	C9		
R251	C2	R383	C9		
R252	C3	R384	A8		
R253	C3	R385	C10		
R254	*D3	R386	C10		
R255	*D3	R387	A8		
R256	*D3	R388	B10		
R257	G4	R389	B10		
R258	*H1	R390	A5		
R259	*H1	R391	C9		
R260	*H1	R392	C10		
R261	*H1	R393	A4		
R262	*H1	R394	B8		
R263	*H1	R395	B8		
R264	*H1	R396	B8		
R265	*H1	R397	B8		
R300	J4	R398	B9		
R301	J4	R399	B9		
R302	K4	R400	A8		
R303	K5	R401	A8		
R304	K5	R402	A5		
R305	K5	R403	C9		
R306	K5	R404	*C10		
R307	*J3	R405	B10		
R308	*J3	R406	C9		
R309	*L3	R407	*C10		
R310	*L3	R408	B10		
R311	*L3	R409	C9		
R312	*L3	R410	C10		
R313	*L3	R411	A4		
R314	*L3				
R315	*M3	RB100	L8		
R316	*M3	RB101	K8		
R317	*M3	RB102	L9		
R318	*M3	RB103	K9		
R319	*M3	RB104	M7		
R320	*M3	RB105	L7		
R321	*M3	RB106	K7		
R322	*M3	RB107	K7		
R323	C8	RB300	L4		
R324	C8	RB301	K4		
R325	C8	RB302	M4		
R326	C8	RB303	L4		
R327	C8	RB304	L4		
R328	C8	RB305	B6		
R329	C8	RB306	C6		
R330	C8	RB307	B5		
R331	B7	RB308	C5		
R332	B7				
R333	B7	RV1	M3		
R334	B7	RV201	B2		
R335	B7				
R336	B7	S1	E5		
R337	B7	S3	L4		



AT-89A -B SIDE-
SUFFIX: -11



MB-562 -A SIDE-
SUFFIX: -11

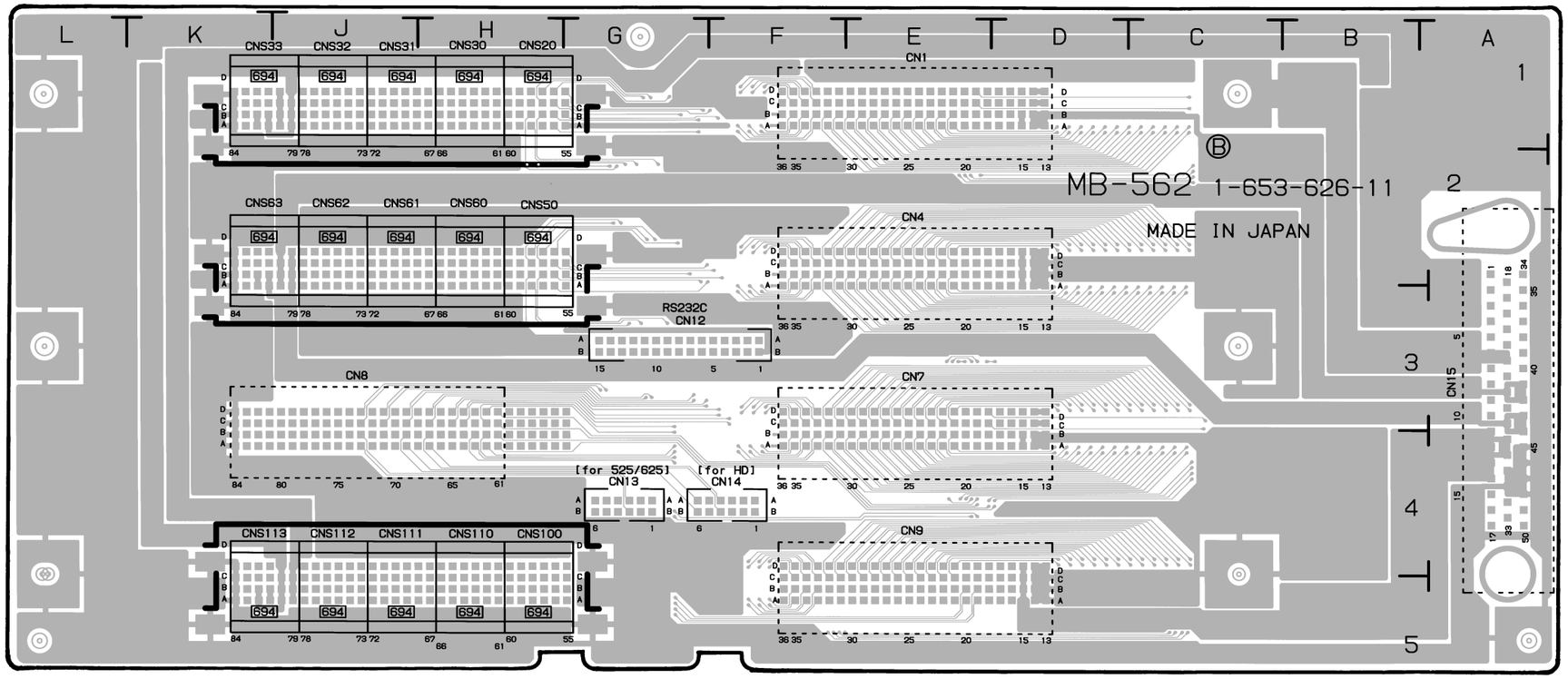
MB-562(1-653-626-11)

CNS20	*H1
CNS30	*H1
CNS31	*J1
CNS32	*J1
CNS33	*K1
CNS50	*H2
CNS60	*H2
CNS61	*J2
CNS62	*J2
CNS63	*K2
CNS100	*H4
CNS110	*H4
CNS111	*J4
CNS112	*J4
CNS113	*K4

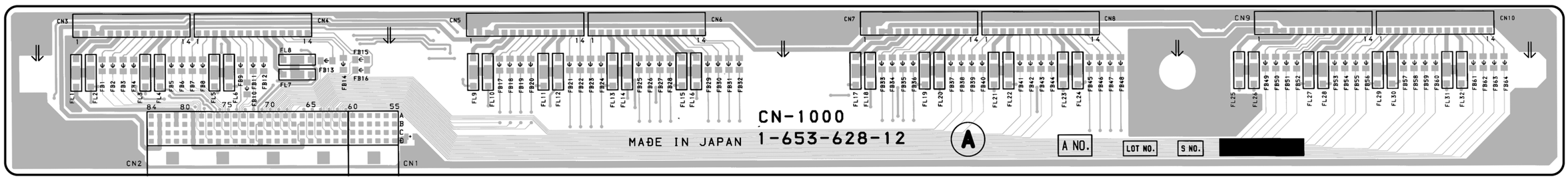
CN1	E1
CN2	H1
CN3	J1
CN4	E2
CN5	H2
CN6	J2
CN7	E3
CN8	J3
CN9	E4
CN10	H4
CN11	J4
CN12	*G3
CN13	*G4
CN14	*F4
CN15	A3

*: B SIDE

CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher

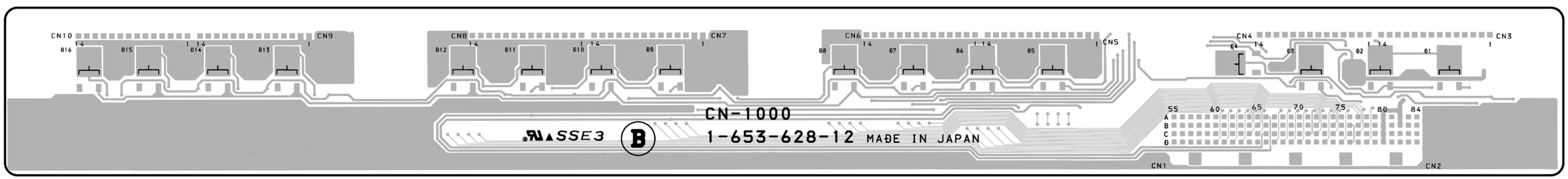


MB-562 -B SIDE-
SUFFIX: -11

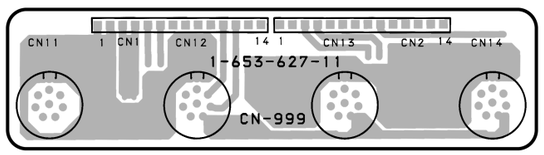


CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher

CN-1000 -A SIDE-
SUFFIX: -12, 13

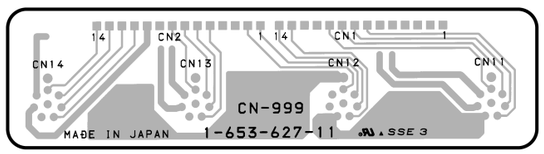


CN-1000 -B SIDE-
SUFFIX: -12, 13



CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher

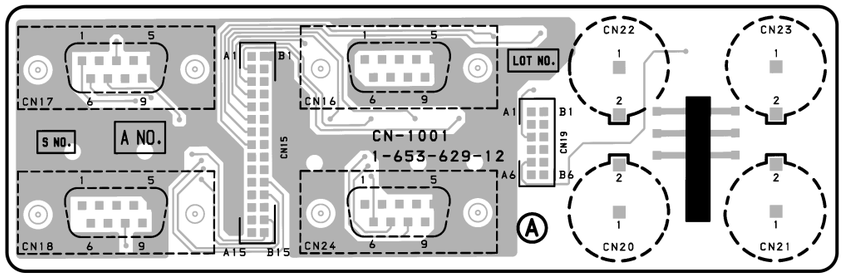
CN-999 -A SIDE-
SUFFIX: -11



CN-999 -B SIDE-
SUFFIX: -11

CN-1000(1-653-628-12,13)

CN1	B1	FB11	A1	FB36	C1	FB61	D1	FL21	C1
CN2	A1	FB12	A1	FB37	C1	FB62	D1	FL22	C1
		FB13	A1	FB38	C1	FB63	D1	FL23	C1
D1	*A1	FB14	A1	FB39	C1	FB64	D1	FL24	C1
D2	*A1	FB15	A1	FB40	C1			FL25	D1
D3	*A1	FB16	A1	FB41	C1	FL1	A1	FL26	D1
D4	*A1	FB17	B1	FB42	C1	FL2	A1	FL27	D1
D5	*B1	FB18	B1	FB43	C1	FL3	A1	FL28	D1
D6	*B1	FB19	B1	FB44	C1	FL4	A1	FL29	D1
D7	*B1	FB20	B1	FB45	C1	FL5	A1	FL30	D1
D8	*B1	FB21	B1	FB46	C1	FL6	A1	FL31	D1
D9	*C1	FB22	B1	FB47	C1	FL7	A1	FL32	D1
D10	*C1	FB23	B1	FB48	C1	FL8	A1		
D11	*C1	FB24	B1	FB49	D1	FL9	B1	*: B SIDE	
D12	*C1	FB25	B1	FB50	D1	FL10	B1		
D15	*D1	FB26	B1	FB51	D1	FL11	B1		
D16	*D1	FB27	B1	FB52	D1	FL12	B1		
		FB28	B1	FB53	D1	FL13	B1		
FB4	A1	FB29	B1	FB54	D1	FL14	B1		
FB5	A1	FB30	B1	FB55	D1	FL15	B1		
FB6	A1	FB31	B1	FB56	D1	FL16	B1		
FB7	A1	FB32	B1	FB57	D1	FL17	C1		
FB8	A1	FB33	C1	FB58	D1	FL18	C1		
FB9	A1	FB34	C1	FB59	D1	FL19	C1		
FB10	A1	FB35	C1	FB60	D1	FL20	C1		



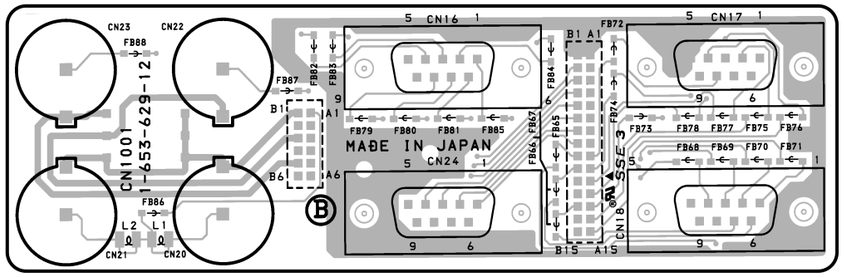
CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher

CN-1001 -A SIDE-
SUFFIX: -12

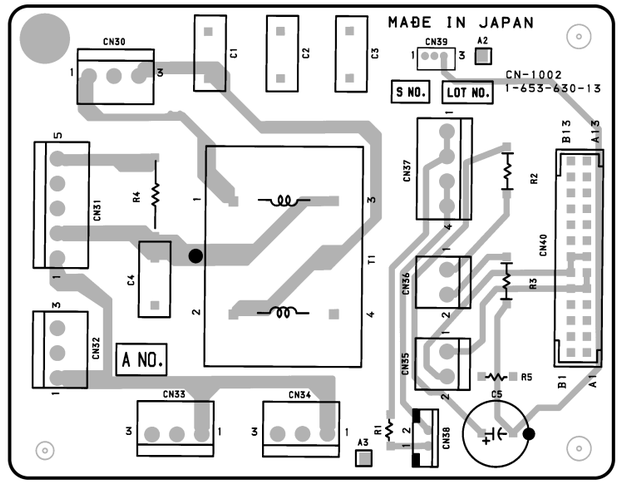
CN-1001(1-653-629-12)

CN15	*B2
CN16	B1
CN17	C1
CN18	C2
CN19	*A2
CN20	A2
CN21	A2
CN22	A1
CN23	A1
FB65	B1
FB66	B2
FB67	B1
FB68	C2
FB69	C2
FB70	C2
FB71	C2
FB72	C1
FB73	C1
FB74	C1
FB75	C1
FB76	C1
FB77	C1
FB78	C1
FB79	B1
FB80	B1
FB81	B1
FB82	B1
FB83	B1
FB84	B1
FB85	B1
FB86	*A2
FB87	*A1
FB88	*A1

: B SIDE

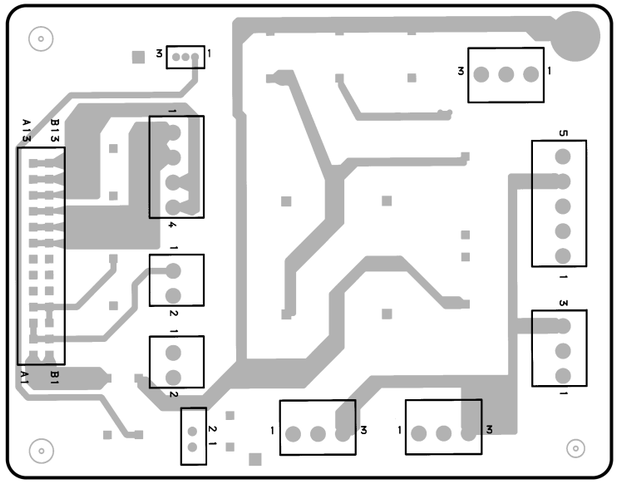


CN-1001 -B SIDE-
SUFFIX: -12

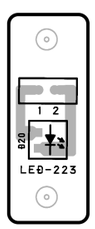


CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher

CN-1002 -A SIDE-
SUFFIX: -13, 14

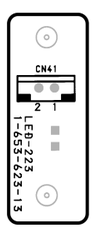


CN-1002 -B SIDE-
SUFFIX: -13, 14



CNU-700 (UC) : 18001 and Higher
CNU-700 (J) : 38001 and Higher
CNU-700 (CE) : 48001 and Higher

LED-223 -A SIDE-
SUFFIX: -13, 14



LED-223 -B SIDE-
SUFFIX: -13, 14

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

Check the metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 3.5 mA. Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 5.25 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 20 V AC range are suitable. (See Fig. A)

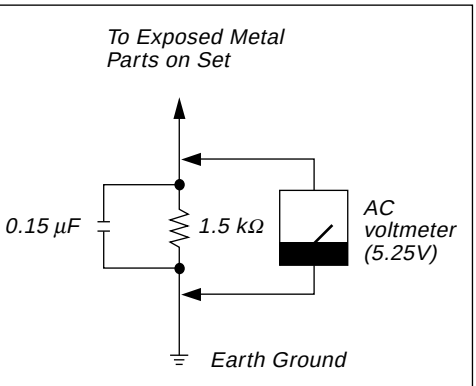

Fig A. Using an AC voltmeter to check AC leakage.

CNU-700 (J, UC, CE) J, E
3-186-540-21

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